| SLC DACA67-99-R-0049 | | | CT No. DA | CA67-99-C-007 | 4 |
|--|--|---|------------------------|--|-------------------|
| SOLICITATION, OFFER, | 1. SOLICITATION NUMBER | 2. TYPE OF SOLICITA | TION | 3. DATE ISSUED | PAGE OF PAGES |
| AND AWARD (Construction, Alteration, or Repair) | DACA67-99-R-004 | 9 SEALED BID (1) NEGOTIATED | | June 4, 1999 | 1 |
| IMPORTANT - The "offer" section on the reverse must be f | ully completed by the offeror. | | | | <u> </u> |
| 4. CONTRACT NUMBER DACA67-99-C-9074 | 5. REQUISITION/PURCHASE REQUEST NU | JMBER | 6. PROJECT NUMBI | R | |
| 7. ISSUED BY CODE | W68MD9 | 8. ADDRESS OFFER TO | | | |
| Seattle District, Corps of Engineers ATTN: CENWS-CT-CB PO Box 3755 Seattle, WA 98124-3755 | | Seattle District, C PO Box 3755 Seattle, WA 981 | ATTN: | neers CENWS-CT-CB | |
| Souther, Will 2012 1 2 100 | | HAND CARRY: BID OPENING | 4735 Eas Seattle, V | Conference Room t Marginal Way So VA 98134-2385 ston Conference R | |
| 9. FOR INFORMATION CALL A. NAME See Inform | nation Page inside Front Co | | BER (Include area cod | e) (NO COLLECT CALLS) on Page inside Front | Cover |
| | SOLICIT | | | | |
| NOTE: In sealed bid solicitations "offer" and "offeror" me | | | | | |
| 10. THE GOVERNMENT REQUIRES PERFORMANCE OF THE WORK DESC Furnish all labor, materials and equipme McChord Air Force Base, Washington of Drawings. | ent and perform all work to in accordance with the attacl | Demolish Golf Cour hed Contract Clauses | s, Special Cla | uses, Technical Spe | ecifications and |
| Solicitation No. DA thereto. | CA67-99-R-0049 d | ated 4 June | with th | ree amendme | nts |
| 2. Wage Determination | No. WA99-0001 wi | th 10 Modifi | cations | thereto. | |
| 3. Drawings as listed | in Section 0800. | , | - | | |
| 4. See Page 00010-2(a) | for alteration(| s) to the Co | ontract. | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 11. The Contractor shall begin performance within | 7 calendar da | ys and complete it within | | * calendar days | s after receiving |
| award, notice to proceed. This performanc | e period is man | datory, negotiab | le. <i>(See</i> | Paragraph SC-1 | |
| 12A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMA | NCE PAYMENT BONDS? | | | 12B. CALENDAR DAYS | |
| (If "YES," indicate within how many calendar days after award in YES NO | tem 128.) | | | 1 | |
| 13. ADDITIONAL SOLICITATION REQUIREMENTS: | | | | | , |
| A. Sealed offers in original and local time July 27, 1999 | copies to perform the work requi | • | | Sealed envelopes | 12:00 pm (hour) |
| containing offers shall be marked to show the offeror's r | name and address, the solicitation number | , and the date and time offers | are due. | <u> </u> | |
| S. A. Olis garante | ot required. | | | • | |
| C. All offers are subject to the (1) work requirements, and (2 | | | | | |
| D. Offers providing less than 90 be rejected. | calendar days for Government acc | eptance after the date offers a | re due will not be o | onsidered and will | |

| SLC No. DACA | 6/-99-R-0 | 049 | | | | | CT No | . DACA67- | -99-C-007 | 74 |
|---|---|----------------------|-----------------|---------------------------------------|---|---|-----------------------|-----------------------|-------------------|------------------|
| 14. NAME AND ADDRESS OF OFFER | OR (Include 71P Code | , | 0 | FFER (Must be fully | | feror) NUMBER (Include a | area codei | | | |
| Pease Construction, Inc. | | | | | 34–6606 | | FA | X: (253) 5: | 81-7855 | |
| PO Box 98046 | | | | | | e only if different tha | n Item 14) | (233)3 | 01-7000 | |
| Lakewood, W | VA 98498 | | | | | | | | | |
| Tax ID No: 91-11 | | _DUNS No: | 06-957 | -1479 | | | | | | |
| eMail: info@pe | easeinc.co | om | | | | | | | | |
| CODE | FACI | LITY CODE | | | l | · | | | | |
| 17. The offeror agrees to perfor | m the work require | ed at the prices spe | cified below in | strict accordance v | vith the terms of | this solicitation, | if this offer is | | | |
| accepted by the Governme | • | | | | | | rt any number equa | al or greater than ti | he | |
| minimum requirement stat | ted in 13D. Failure | to insert any numb | her means the d | offeror accepts the i | ninimum in Item | 13D.) | | | | |
| | | | | | | | | | | |
| AMOUNTS S | 'aa maaa 000' | 10.4 | | | | | | | | |
| AMOUNTS | see page 000 | 10-4 | | | | | | | | |
| | | | | | | | | | | |
| 18. The offeror agrees to furnish | h any required perf | ormance and paym | ent bonds. | | | | | | | |
| | | (The offeror ac | | . ACKNOWLEDGEM ceipt of amendments | | | and date of each) | | | |
| AMENDMENT NO. | | | | | | | | | | |
| AMERICAL IO. | 0001 | 0002 | 0003 | | | | - | | | |
| DATE | 7/2/99 | 7/9/99 | 7/19/9 | 20 | | | | | | |
| 20A. NAME AND TITLE OF PERSON | <u> </u> | <u> </u> | | / | 20B. SIGNATUR | | | | 20C. OFFER DATE | <u> </u> |
| | | | | ~ | | ~ (| | \rightarrow | | |
| Patricia A. Ca | ndiotta, | Presiden | | <u> </u> | 1 am | M L | endust | * | 7/29/99 |) |
| 21, ITEMS ACCEPTED | | | <u> </u> | AWARD <i>(To be com)</i> | oleted by Govern | ment) | | | | |
| | • | | | | | | | | | |
| 00001 and 0002 | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 22. AMOUNT | | | | 23. ACCOUNTING | AND APPROPRIAT | TION DATA | | | | |
| | | | | | | | | | | |
| | | | N 1 | | T | | | | | |
| 24.SUBMIT INVOICES TO ADDR (4 copies unless otherwis | | | | ЕМ 26 | | N FULL AND OPEN (. 2304(c) (| COMPETITION PURS | | 2/->/ | |
| 26. ADMINISTERED BY | c specifical | CODE | | | ∤.└ ── | ILL BE MADE BY | <u> </u> | 41 U.S.C. 25 | 3(C) () | |
| Fort Lewis Area C | Office | L. | | | US Arı | ny Corps of | f Engineers 1 | Finance Cent | er | |
| USAED, Seattle | | | | | CEFC-AO-P | | | | | |
| PO Box 92146 Tillicum, WA 9849 | 92-0146 | | | | 5720 Integrity Drive Millington, TN 38054-5005 | | | | | |
| 1111100111, 111111011 | 22 01.0 | | | | | ,, 11. 0. | 305.000 | | | |
| | | CO | NTRACTING (| OFFICER WILL COMP | PLETE ITEM 28 0 | R 29 AS APPLIC | ABLE | | | |
| 28. NEGOTIATED AGREE | MENT (Contractor | is required to sig | an this | | 29. AW | ARD. <i>(Contractor</i> | is not required to | sign this document | J Your | |
| لسما | 28. NEGOTIATED AGREEMENT (Contractor is required to sign this | | | | 1 | | • | to the items liste | - | onsummates the |
| document and returnconies to the issuing office.) Contractor agrees to furnish and deliver all items or perform all work requirements identified on this form and any continuation sheets for the | | | | | | (a) the Governmer I document is nece | nt solicitation and | your offer, and (| (b) this contract | |
| consideration stated in this contract. The rights and obligations of the parties to this contract shall be governed by (a) this contract award, (b) the solicitation, and (c) the clauses, representations, certifications, and specifications incorporated by reference in or attached to this contract. | | | | | | | | ,. | | |
| certifications, and specification | ns incorporated by | reference in or atta | ached to this c | ontract. | | | | | | |
| | OTO CT | LITHODISTO ST. CO. | | | | | inco or | | | |
| 30A. NAME AND TITLE OF CONTRA (Type or print) | ACTOR OR PERSON A | UTHORIZED TO SIGN | ì | | 31A. NAME OF | CONTRACTING OFF | FICER (Type or print) | | | |
| er the external | | | | | CHERYL | A. ANDE | ERSON | | | |
| 30B. SIGNATURE | | · | 30C. DATE | | | A. ANDE | 7 | | 31C. AWARD D | IATE |
| | | | | | 1. | hull 1 | Bude | MA | 2/1/ | nt 90 |
| | | | | | BY | <u>yu</u> | Lonar | | 2/20 | 71 1/ |
| | | | | | | U | | STANDA | RD FORM 1442 | BACK (REV. 4-85) |

ALTERATIONS IN CONTRACT

(FAR 52.252-4) (APR 1984)

PORTIONS OF CONTRACT ARE ALTERED AS FOLLOWS:

Modification No. 10 to Wage Decision No. WA990001 is hereby Incorporated into this contract.



RFP No: DACA67-99-R-0049

Contract No.: <u>DACA67-99-C-0074</u>

IF THE CONTRACTOR IS A <u>CORPORATION OR PARTNERSHIP</u>, THE <u>APPLICABLE FORM LISTED BELOW MUST BE COMPLETED</u>. IN THE ALTERNATIVE, OTHER EVIDENCE MUST BE SUBMITTED TO SUBSTANTIATE THE AUTHORITY OF THE PERSON SIGNING THE CONTRACT. IF A CORPORATION, THE SAME OFFICER SHALL NOT EXECUTE BOTH THE CONTRACT AND THE CERTIFICATE.

| CERTIFICATE. | CORPORATE CERTIFICA | TE |
|--|--|--|
| signed this contract on behalf that said contract was duly sign | named as Contractor herein; that f of the Contractor was then gned for and on behalf of said cor the scope of its corporate powers | sident of said corporation poration by authority of its |
| | Gloria I. Jerm (Secretary | Jormandson Indson (CORPORATE) SEAL) |
| This is to certify that the partnership pursuant to its parauthority to enter into and excurred States of America, excurred This authority shall re- | the names, signatures and Social Sperson signing the contract has aurtnership agreements. Each of the ecute contractual instruments on the cept as follows: (state "none" or demain in full force and effect until oever has been furnished in writing | Security Numbers of all partners thority actually to bind the partners individually has full behalf of said partnership with the escribe limitations, if any). |
| (Names, Sign | natures and Social Security Numb | ers of all Partners) |
| NAME | SIGNATURE | SOCIAL SECURITY NO. |
| | | |
| | | |
| | | |



SCHEDULE

Item

<u>No.</u>

Description of Item

Quantit

Y

1

Unit

Price Price Unit

<u>Amount</u>

Demolish Golf Course Clubhouse and Cart Storage Facilities McChord Air Force Base, Washington

PN: 99-5000

Demolish Golf Clubhouse - Building 888 0001

The Contractor shall provide all labor, material, and equipment necessary for the complete demolition of Golf Clubhouse, McChord AFB, WA, including abatement of asbestos and lead containing materials and removal of Underground Storage Tank (including 100 gallons of product and rinsates and 25 gallons of sludges).

Demolish Golf Cart Storage Building 891 0002

The Contractor shall provide all labor, material and equipment necessary for the complete demolition of Cart Storage building, McChord AFB, WA, including abatement of lead containing materials.

TOTAL ITEMS 0001 AND 0002

JOB L.S. \$ <u>32,788</u>

JOB

\$ 44,186



| AMENDMI | ENT OF SOLICITATION/MODI | 1. CONTRACT ID COD | E | PAGE OF PAGES | | |
|------------------|---|--|-------------------------------|-----------------------------|--------------------|---|
| 2. AMENDMEN | T/MODIFICATION NO. | 3. EFFECTIVE DATE | 4. REQUISITION/PURCHAS | SE REQ. NO. | 5. PROJECT NO | I |
| | 0003 | 07/19/99 | W68MD9-9036 | -4807 | | |
| 6. ISSUED BY | CODE | | 7. ADMINISTERED BY (If o | ther than item 6) | CODE | |
| 0.1000EB E+ | | W68MD9 | | the than tem of | C002 | |
| | US ARMY ENGINEER DISTRICT, SEA | TTLE | | | | |
| | PO BOX 3755 | | | | | |
| | SEATTLE WA 98124-3755 | | | | | |
| | | | | | | |
| | Margaret J Gillam | C04(206) 764-6588 | | | | |
| 8. NAN' | TOTAL CTOR (No. etraet com | nty State and ZIP Code) | <u> </u> | (X) 9A. AMENDMENT | OF SOLICITATION | ON NO |
| | | 2.002, | 1 | DACA67-99- | | |
| | | | | | R-0049 | |
| | | | | х | ···· | |
| | • | | | 9B. DATED (SEE I | ITEM 11) | |
| | | | | 06/03/99 | | |
| | | | | 10A. MODIFICATION | ON OF CONTRA | CT/ORDER NO. |
| | | | | | | |
| | | | | | | |
| | | | İ | 10B. DATED (SEE | ITEM 13) | |
| | | | | 100.00.20(022 | | |
| | | The state of languages and | | 1 | | |
| CODE | 99999 F | ACILITY CODE | | | | |
| | 11. THIS | ITEM ONLY APPLIES TO A | MENDMENTS OF SOLIC | ITATIONS | | |
| | numbered solicitation is amended as s | | | | | |
| Offers must a | cknowledge receipt of this amendment | prior to the hour and date | specified in the solicitation | n or as amended, by o | ne of the follo | wing methods: |
| (a) By comple | oting Itome 8 and 15, and returning | | ek (b) By acknowledging | receipt of this amend | ment on each | copy of the offer |
| submitted: or | (c) By separate letter or telegram whice | h includes a reference to the | e solicitation and amendr | nent numbers. FAILUF | RE OF YOUR | ACKNOWLEDG- |
| MENT TO BE | RECEIVED AT THE PLACE DESIGNA | TED FOR THE RECEIPT OF | OFFERS PRIOR TO TH | E HOUR AND DATE S | PECIFIED MA | Y RESULT |
| IN REJECTIO | N OF YOUR OFFER. If by virtue of thi | s amendment you desire to | change an offer already | submitted, such chang | e may be mad | de by telegram or |
| | ed each telegram or letter makes refere | nce to the solicitation and tr | ils amenoment, and is rec | ceived prior to the ope | ning hour and | date specified. |
| 12. ACCOUNTIN | IG AND APPROPRIATION DATA (If required) | | | • | | |
| | | | | | | |
| | 13. THIS ITEM AP | PLIES ONLY TO MO | DIFICATIONS OF C | ONTRACTS/ORD | FRS | |
| | | THE CONTRACT/OR | | | | |
| - A. I | | | | | | * |
| (X) A. THIS | CHANGE ORDER IS ISSUED PURSUANT TO: | (Specify authority) THE CHANG | GES SET FORTH IN ITEM 14 A | ARE MADE IN THE CONTR | ACT ORDER NO | . IN ITEM 10A. |
| | | | | | | |
| B. THE A | BOVE NUMBERED CONTRACT/ORDER IS | MODIFIED TO REFLECT THE AL | MINISTRATIVE CHANGES (S | such as changes in paying o | ffice, appropriate | on date, etc.) |
| SETF | ORTH IN ITEM 14, PURSUANT TO THE AUTH | ORITY OF FAR 43.103 (b). | • | | | |
| C. THIS S | SUPPLEMENTAL AGREEMENT IS ENTERED | INTO PURSUANT TO AUTHORIT | TY OF: | | | |
| | | The state of the s | | | | |
| | | | | | | |
| D. OTHE | R (Specify type of modification and authority) | | | | | |
| | | | | | | |
| | | | | | | |
| E. IMPORTA | NT: Contractor Due not | □ is required to some this d | accompant and seture | | : | *************************************** |
| E. INFORTAL | NT: Contractor I is not. | is required to sign this d | ocument and return | copies to the iss | uing oπice. | • |
| 14. DESCRIPTIO | ON OF AMENDMENT (Organi | zed by LICE section headings and | luding solicitation (contract | high matter where for bi | | |
| | | | | ibject matter where reasini | (e.) | |
| | CA67-99-R-0049, Demolish Golf Co | | t Storage | | | |
| Fa | cilities at McChord AFB, Washing | ton | | | | |
| | | | | | | |
| A | This solicitation is amended a | s follows: | | | | |
| | | | | | | |
| | (1) Standard Form 1442, Bloc | rk 13 proposal due date | a/tima is | | | |
| | • | .x 13, proposar ude dat | e/time is | | | |
| ex | tended to: | | 4 | | | |
| | • | | | | | |
| Except as provid | ed herein, all terms and conditions of the doci | ment referenced in Item 9A or 10 | A, as heretofore changed, ren | nains unchanged and in full | force and effect | |
| | TITLE OF SIGNER (Type or print) | | 16A. NAME AND TITLE OF C | | | |
| | | | | - = , | | |
| 15B. CONTRACT | TOR/OFFEROR | 15C. DATE SIGNED | 16B. UNITED STATES OF A | MERICA | - | 16C. DATE SIGNED |
| | · - - | SOUTH STORES | 130. GILLED GIATES OF AL | | | IOC. DATE SIGNED |
| | | | BY | | | |
| (Signature | e of person authorized to sign) | | | ntracting Officer) | | |
| | | | | | | |

SF 30 CONTINUATION SHEET

12:00 p.m., noon, local time, July 29, 1999

B. NOTICE TO OFFERORS: Offerors must acknowledge receipt of this amendment by number and date on page 00010-2, Block 19 or by telegram. Please mark outside of envelope containing the offer to show amendments received.

| AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT | | | | 1. CONTRACT ID COD | E | PAGE OF PAGES |
|---|--|------------------------------------|---|----------------------------|--------------------|-------------------|
| | | 3. EFFECTIVE DATE | 4. REQUISITION/PURCHASE | BEO NO | 5. PROJECT NO |) (If applicable) |
| 2. AMENDMENT | MODIFICATION NO. | 07/09/99 | 4. REGUISITION/PURCHASE W68MD9-9036-4 | | 3. PROJECT NO | (ir applicable) |
| | 0002 | 07/09/99 | | | | |
| 6. ISSUED BY | CODE | W68MD9 | 7. ADMINISTERED BY (If oth | er than item 6) | CODE | |
| | US ARMY ENGINEER DISTRICT, SEA | TTLE | | | | |
| | PO BOX 3755 | | | | | |
| | SEATTLE WA 98124-3755 | | | | | |
| | | | | | | |
| | Margaret J Gillam | C04(206) 764-6588 | | | | |
| 8. NAME AND AD | DRESS OF CONTRACTOR (No., street, cou | nty, State and ZIP Code) | | (X) 9A. AMENDMENT | OF SOLICITATION | ON NO. |
| | | | | DACA67-99- | R-0049 | |
| | | | | x | | |
| | | | | 9B. DATED (SEE | TEM 11) | |
| | | | | 06/03/99 | | |
| | | | | 10A, MODIFICATION | ON OF CONTRAC | CT/ORDER NO. |
| | | | | | | |
| | | | | | | |
| | | | | 10B. DATED (SEE | (TEM 13) | |
| | | | | | | |
| 0005 | 1. | FACILITY CODE | · | | | |
| CODE | | | AENDMENTS OF SOLICE | TATIONS | | |
| The shows | מותו numbered solicitation is amended as | ITEM ONLY APPLIES TO AN | vicinulvicin i 5 OF SOLICI | Ceint of Offers Dis | extended Wis | not extended |
| _ | knowledge receipt of this amendmen | | | | <i>7</i> · | |
| | ing Items 9 and 15, and returning | copies of the amendmen | | | | |
| submitted; or (| c) By separate letter or telegram which | h includes a reference to the | solicitation and amendm | ent numbers. FAILUI | RE OF YOUR A | ACKNOWLEDG- |
| MENT TO BE I | RECEIVED AT THE PLACE DESIGNA | ITED FOR THE RECEIPT OF | OFFERS PRIOR TO THE | HOUR AND DATE S | PECIFIED MA | Y RESULT |
| IN REJECTION | NOF YOUR OFFER. If by virtue of the each telegram or letter makes refere | is amendment you desire to | change an offer aiready Si is amondment, and is rece | ubmitted, such chang | ge may be mad | date specified |
| | G AND APPROPRIATION DATA (If required) | FICE IO THE SOUCHABOT AND TH | is affectively, and is rece | sived prior to the ope | ing nour and | date specified. |
| 12. ACCOON 1114 | SANDAI PROFESION DATA (II reguleta) | | | | | |
| | | | | | | |
| | | PLIES ONLY TO MOD | | | | |
| | II MODIFIES | THE CONTRACT/ORI | DER NO. AS DESCI | KIRED IN HEW | 14. | |
| (X) A. THIS C | HANGE ORDER IS ISSUED PURSUANT TO | : (Specify authority) THE CHANG | ES SET FORTH IN ITEM 14 A | RE MADE IN THE CONTR | RACT ORDER NO |). IN ITEM 10A. |
| | | | | | | |
| | BOVE NUMBERED CONTRACT/ORDER IS | | MINISTRATIVE CHANGES (su | ich as changes in paying c | office, appropriat | ion date, etc.) |
| SETFO | ORTH IN ITEM 14, PURSUANT TO THE AUTI | HORITY OF FAR 43.103 (b). | - | | | |
| C. THIS S | UPPLEMENTAL AGREEMENT IS ENTERED | O INTO PURSUANT TO AUTHORIT | YOF: | | | |
| | | | • | | | |
| D. OTHER | (Specify type of modification and authority |) | | | | |
| | | | | | | |
| | | | | | | |
| E. IMPORTAN | IT: Contractor ∏ is not, | is required to sign this do | ocument and return | conies to the iss | suing office | |
| E. 1111 OTTA | | | | σορίσο το τίπο κα | ang omoo. | 1 |
| 14. DESCRIPTIO | N OF AMENDMENT/MODIFICATION (Organ | uzed by UCF section headings, inc | luding solicitation/contract sub | oject matter where feasib | le.) | • |
| DAG | ZA67-99-R-0049, Demolish Golf C | ourse Clubhouse and Cart | Storage | | | |
| Fac | cilities, Whispering Firs Golf | Course, McChord AFB, Was | shington | | | |
| | | | | | | |
| Α. | This solicitation is amended | as follows: | | | | |
| | | | | | | |
| | (1) Section 00800, Davis Ba | con Wage Determination : | is hereby | | | |
| (1) Section 00800, Davis Bacon Wage Determination is hereby replaced in its entirety with WA990001, Modification No. 8, dated | | | | | | |
| 07/09/1999, attached. | | | | | | |
| | ed herein, all terms and conditions of the do | cument referenced in Item 04 or 10 | A as heretofore changed rom | ains unchanged and in ful | I force and effect | t. |
| | TITLE OF SIGNER (Type or print) | oursett referenced in Hemisa Of 10 | 16A. NAME AND TITLE OF C | • | | |
| | | | | | ,, | |
| 15B, CONTRACT | OR/OFFEROR | 15C, DATE SIGNED | 16B, UNITED STATES OF AN | MERICA | | 16C. DATE SIGNED |
| | | | | | | |
| | | | BY (Signature of Con | Arration Offices | | |
| (Signature | of person authorized to sign) | | (Signature of Con | ruacting Officer) | | |

SF 30 CONTINUATION SHEET

- B. The attached revised pages supercede and replace liked-numbered pages and should be inserted in sequence.

99 JULY 27 at 12:00 p.m., noon, local time

D. NOTICE TO OFFERORS: Offerors must acknowledge receipt of this amendment by number and date on page 00010-2, Block 19 or by telegram. Please mark outside of envelope containing the offer to show amendments received.

Attachment:

1. WA990001

| AMENDMENT OF SOLICITATION/MODI | act | 1, CONTRACT ID COD | PAGE OF PAGES | |
|--|-----------------------------------|---------------------------------|----------------------------|-----------------------------------|
| 2. AMENDMENT/MODIFICATION | 3. EFFECTIVE DATE | 4. REQUISITION/PURCHAS | E REQ. NO. | 5. PROJECT NO. (If applicable) |
| 0001 | 07/02/99 | W68MD9-9036- | 4807 | |
| 6, ISSUED BY CODE | W68MD9 | 7. ADMINISTERED BY (If ot | her than (tem 6) | CODE |
| l | | | , | |
| US ARMY ENGINEER DISTRICT, SEAS | TTLE | | | |
| PO BOX 3755 | , | | | |
| SEATTLE WA 98124-3755 | | | | |
| Margaret J Gillam | CO4(206) 764-6588 | | | |
| 8. NAME AND ADDRESS OF CONTRACTOR (No., street, cour | nty, State and ZIP Code) | | (X) 9A. AMENDMENT | OF SOLICITATION NO. |
| | | | DACA67-99- | R-0049 |
| • | | | x | |
| | | | 9B. DATED (SEE | TEM 11) |
| | | | 06/03/99 | TEN TI |
| | | _ | | |
| | | | 10A. MODIFICATI | ON OF CONTRACT/ORDER NO. |
| | | | | |
| | | | | |
| | | | 10B. DATED (SEE | ITEM 13) |
| | | | | |
| CODE | ACILITY CODE | | | |
| | ITEM ONLY APPLIES TO A | MENDMENTS OF SOLICI | ITATIONS 4 | · |
| x The above numbered solicitation is amended as: | | | | extended. is not extended. |
| Offers must acknowledge receipt of this amendmen | | | | |
| (a) By completing Items 8 and 15, and returning | | | | |
| submitted; or (c) By separate letter or telegram which | | | | |
| MENT TO BE RECEIVED AT THE PLACE DESIGNA | TED FOR THE RECEIPT OF | OFFERS PRIOR TO THI | E HOUR AND DATE S | PECIFIED MAY RESULT |
| IN REJECTION OF YOUR OFFER. If by virtue of th | | | | |
| letter, provided each telegram or letter makes refere | nce to the solicitation and th | is amendment, and is red | ceived prior to the ope | ning nour and date specified. |
| 12. ACCOUNTING AND APPROPRIATION DATA (If required) | | | | |
| | | | | |
| 13. THIS ITEM AP | PLIES ONLY TO MOI | DIFICATIONS OF C | ONTRACTS/ORD | ERS, |
| IT MODIFIES | THE CONTRACT/OR | DER NO. AS DESC | RIBED IN ITEM | 14. |
| (X) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: | (Specify authority) THE CHANG | SES SET FORTH IN ITEM 14 A | ARE MADE IN THE CONTE | SACT ORDER NO. IN ITEM 10A. |
| // // // // // // // // // // // // // | (option) damenty) | | | |
| | | | | |
| B. THE ABOVE NUMBERED CONTRACT/ORDER IS SET FORTH IN ITEM 14, PURSUANT TO THE AUTH | | IMINISTRATIVE CHANGES (S | uch as changes in paying o | orrice, appropriation date, etc.) |
| | | | | |
| C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED | INTO PURSUANT TO AUTHORIT | YOF: | | |
| | | | | |
| D. OTHER (Specify type of modification and authority) |) | | | |
| İ | | | | |
| | | | | |
| E. IMPORTANT: Contractor ☐ is not. | ☐ is required to sign this de | acument and return | conice to the ice | uring office |
| E. IMPORTANT: Contractor is not, | | bournerit and return | copies to the iss | sung onice. |
| 14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organ | ized by UCF section headings, inc | luding solicitation/contract su | bject matter where feasib | le.) |
| DACA67-99-R-0049, Demolish Golf C | | _ | · | • |
| | | 5 5002490 | | · |
| Facilities at McChord AFB, Washing | 9.011 | | | |
| | | | | |
| A. This solicitation is amended | as follows: | | | |
| | | , | | |
| (1) Table of Contents, Cont | ents page, is revised a | s indicated. | | |
| | | | | |
| (2) Standard Form 1442, Blo | ck 13, proposal due dat | e/time is | | |
| Except as provided herein, all terms and conditions of the doc | | | mains unchanged and in ful | I force and effect. |
| 15A, NAME AND TITLE OF SIGNER (Type or print) | | 16A. NAME AND TITLE OF | | |
| • | | | | |
| 15B. CONTRACTOR/OFFEROR | 15C, DATE SIGNED | 16B, UNITED STATES OF A | MERICA | 16C. DATE SIGNED |
| | | | • | |
| | | ВҮ | | <u></u> |
| (Signature of person authorized to sign) | | (Signature of Co | ntracting Officer) | |

extended to:

12:00 p.m., noon, local time, July 27, 1999

- (3) Section 00800, Davis Bacon Wage Determination WA990002 is deleted and replaced in its entirety with Davis Bacon Wage Determination WA990001, attached.
- B. The minutes of the site visit and pre-proposal conference held on 17 June 1999 at McChord AFB, Washington are attached. PLEASE NOTE: THE AFOREMENTIONED ATTACHMENT IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY--ANY CHANGES TO THE SOLICITATION ARE ADDRESSED SEPARATELY THROUGH THIS AMENDMENT AND ANY SUBSEQUENT AMENDMENT THERETO.
- C. A copy of the attendance list for the site visit and pre-proposal conference is attached.
- D. The attached revised pages supercede and replace like-numbered pages and should be inserted in sequence. Changes are marked by strikethrough, underlining or perpendicular lines in the margin.
- E. NOTICE TO OFFERORS: The proposal receipt date and time are hereby extended to:

99 JULY 27 at 12:00 p.m., noon, local time

F. NOTICE TO OFFERORS: Offerors must acknowledge receipt of this amendment by number and date on page 00010-2, Block 19 or by telegram. Please mark outside of envelope containing the offer to show amendments received.

Attachments:

- 1. SF1442
- 2. Table of Contents
- 3. WA990001
- 4. Minutes of Site Visit and Pre-Proposal Conference, dtd 17 June 1999
- 5. Attendance List

TABLE OF CONTENTS

SECTION 00700

CONTRACT CLAUSES

| 1 | 52. 252-2 | CLAUSES INCORPORATED BY REFERENCE (FEB 1998) |
|----------|------------------------|--|
| 2 | 52. 201-4001 | SUCCESSOR CONTRACTING OFFICERS (52. 0201-4001) |
| 3 | 52. 201-7000 | CONTRACTING OFFICER'S REPRESENTATIVE (DEC 1991) |
| 4 | 52. 202-1 I | DEFINITIONS (OCT 1995) - ALTERNATE I (APR 1984) |
| 5 | 52. 202-1 | DEFINITIONS (SEPT 1991) |
| 6 | 52. 203-3 | GRATUITIES (APR 1984) |
| 7 | 52. 203- 5 | COVENANT AGAINST CONTINGENT FEES (APR 1984) |
| 8 | 52. 203- 7 | ANTI - KI CKBACK PROCEDURES (JUL 1995) |
| 9 | 52. 203-8 | CANCELLATION, RESCISSION, AND RECOVERY OF FUNDS FOR |
| Ū | 0A1 A00 0 | ILLEGAL OR IMPROPER ACTIVITY (JAN 1997) |
| 10 | 52. 203- 10 | PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER |
| | | ACTIVITY (JAN 1997) |
| 11 | 52. 203-12 | LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL |
| | | TRANSACTIONS (JUN 1997) |
| 12 | 52. 203- 7001 | PROHIBITION ON PERSONS CONVICTED OF FRAUD OR OTHER |
| | | DEFENSE- CONTRACT- RELATED FELONIES (MAR 1999) |
| 13 | 52. 203-7002 | DISPLAY OF DOD HOTLINE POSTER (DEC 1991) |
| 14 | 52. 204-4 | PRINTING/COPYING DOUBLE-SIDED ON RECYCLED PAPER |
| | | (JUN 1996) |
| 15 | 52. 204-7001 | COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE |
| | | REPORTING (DEC 1991) |
| 16 | 52. 209- 6 | PROTECTING THE GOVERNMENT'S INTEREST WHEN |
| | | SUBCONTRACTING WITH CONTRACTOR DEBARRED, SUSPENDED, |
| | | OR PROPOSED FOR DEBARMENT (JUL 1995) |
| 17 | 52. 211- 13 | TIME EXTENSIONS (APR 1984) |
| 18 | 52. 215- 2 | AUDIT AND RECORDSNEGOTIATION (AUG 1996) |
| 19 | 52. 215-8 | ORDER OF PRECEDENCE UNI FORM CONTRACT FORMAT |
| 00 | 70.010.4 | (OCT 1997) |
| 20 | 52. 216-4 | ECONOMIC PRICE ADJUSTMENTLABOR AND MATERIAL |
| 0.1 | 70 010 0 | (JAN 1997) |
| 21 22 | 52. 219-8 52. 222-1 | UTILIZATION OF SMALL BUSINESS CONCERNS (JAN 1999) NOTICE TO THE GOVERNMENT OF LABOR DISPUTES |
| 22 | 52. 222- I | (FEB 1997) |
| 23 | 52. 222-3 | CONVICT LABOR (AUG 1996) |
| 23 24 | 52. 222- 4 | CONTRACT WORK HOURS AND SAFETY STANDARDS ACT |
| 24 | J 4 | OVERTIME COMPENSATION (JUL 1995) |
| 25 | 52. 222-6 | DAVIS-BACON ACT (FEB 1995) |
| 26 | 52. 222-7 | WITHHOLDING OF FUNDS (FEB 1988) |
| 27 | 52. 222-8 | PAYROLLS AND BASIC RECORDS (FEB 1988) |
| 28 | 52. 222- 9 | APPRENTICES AND TRAINEES (FEB 1988) |
| 29 | 52. 222- 10 | COMPLIANCE WITH COPELAND ACT REQUIREMENTS |
| 20 | 02.222 10 | (FEB 1988) |
| 30 | 52. 222- 11 | SUBCONTRACTS (LABOR STANDARDS) (FEB 1988) |
| 31 | 52. 222- 12 | CONTRACT TERMINATION DEBARMENT (FEB 1988) |
| 32 | 52. 222- 13 | COMPLIANCE WITH DAVIS-BACON AND RELATED ACT |
| | | REGULATIONS (FEB 1988) |
| 33 | 52. 222- 14 | DISPUTES CONCERNING LABOR STANDARDS (FEB 1988) |
| 34 | 52. 222- 15 | CERTIFICATION OF ELIGIBILITY (FEB 1988) |
| | | ` , |

| 35 | 52. 222- 23 | NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO |
|--|--|--|
| | | ENSURE EQUAL EMPLOYMENT OPPORTUNITY FOR |
| | | CONSTRUCTION (FEB 1999) |
| 36 | 52. 222- 26 | EQUAL OPPORTUNITY (FEB 1999) |
| 37 | 52. 222-27 | AFFIRMATIVE ACTION COMPLIANCE REQUIREMENTS FOR |
| | | CONSTRUCTION (FEB 1999) |
| 38 | 52. 222- 35 | AFFIRMATIVE ACTION FOR DISABLED VETERANS AND |
| | 02.222 | VETERANS OF THE VIETNAM ERA (APR 1998) |
| 39 | 52. 222- 36 | AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES |
| 00 | 02.222 00 | (JUN 1998) |
| 40 | 52. 222- 37 | EMPLOYMENT REPORTS ON DISABLED VETERANS AND |
| 10 | 02. 222 01 | VETERANS OF THE VIETNAM ERA (JAN 1999) |
| 41 | 52. 223-2 | CLEAN AIR AND WATER (APR 1984) |
| 42 | 52. 223-3 | HAZARDOUS MATERIAL IDENTIFICATION AND MATERIAL |
| 42 | 32. 223-3 | |
| 40 | ro 000 r | SAFETY DATA (JAN 1997) |
| 43 | 52 . 223 - 5 | POLLUTION PREVENTION AND RIGHT-TO-KNOW INFORMATION |
| | | (APR 1998) |
| 44 | 52. 223-6 | DRUG-FREE WORKPLACE (JAN 1997) |
| 45 | 52. 223-14 | TOXIC CHEMICAL RELEASE REPORTING (OCT 1996) |
| 46 | 52. 223-7001 | HAZARD WARNING LABELS (DEC 1991) |
| 47 | 52. 223- 7004 | DRUG-FREE WORK FORCE (SEP 1988) |
| 48 | 52. 227- 1 | AUTHORIZATION AND CONSENT (JUL 1995) |
| 49 | 52. 227- 7023 | DRAWINGS AND OTHER DATA TO BECOME PROPERTY OF |
| | 0212217020 | GOVERNMENT (MAR 1979) |
| 50 | 52. 227-7033 | RIGHTS IN SHOP DRAWINGS (APR 1966) |
| 51 | 52. 228-11 | PLEDGES OF ASSETS (FEB 1992) |
| 52 | 52. 228-12 | PROSPECTIVE SUBCONTRACTOR REQUESTS FOR BONDS |
| JL | J2. 226- 12 | (OCT 1995) |
| 70 | TO 000 14 | |
| 53 | 52. 228- 14 | IRREVOCABLE LETTER OF CREDIT (OCT 1997) |
| 54 | 52. 228 - 15 | Performance and Payment BondsConstruction |
| | 70 000 7004 | (SEP 1996) |
| 55 | 52. 228- 7004 | BONDS OR OTHER SECURITY (DEC 1991) |
| 56 | 52. 229-3 | FEDERAL, STATE, AND LOCAL TAXES (JAN 1991) |
| 57 | 52. 232- 5 | PAYMENTS UNDER FIXED-PRICE CONSTRUCTION CONTRACTS |
| | | (MAY 1997) |
| 58 | 52. 232- 14 | NOTICE OF AVAILABILITY OF PROGRESS PAYMENTS |
| | | EXCLUSIVELY FOR SMALL BUSINESS CONCERNS (APR 1984) |
| 59 | 52. 232- 17 | INTEREST (JUN 1996) |
| 60 | 52. 232- 18 | AVAILABILITY OF FUNDS (APR 1984) |
| 61 | 52. 232-23 | ASSIGNMENT OF CLAIMS (JAN 1986) |
| 62 | | |
| | | |
| 63 | 52. 232-24 | PROHIBITION OF ASSIGNMENT OF CLAIMS (JAN 1986) |
| 63 | | PROHIBITION OF ASSIGNMENT OF CLAIMS (JAN 1986) PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS |
| | 52. 232- 24 52. 232- 27 | PROHIBITION OF ASSIGNMENT OF CLAIMS (JAN 1986) PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (JUN 1997) |
| 63 64 | 52. 232-24 | PROHIBITION OF ASSIGNMENT OF CLAIMS (JAN 1986) PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (JUN 1997) PAYMENT BY ELECTRONIC FUNDS TRANSFERCENTRAL |
| 64 | 52. 232- 24 52. 232- 27 52. 232- 33 | PROHIBITION OF ASSIGNMENT OF CLAIMS (JAN 1986) PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (JUN 1997) PAYMENT BY ELECTRONIC FUNDS TRANSFERCENTRAL CONTRACTOR REGISTRATION (MAY 1999) |
| | 52. 232- 24 52. 232- 27 | PROHIBITION OF ASSIGNMENT OF CLAIMS (JAN 1986) PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (JUN 1997) PAYMENT BY ELECTRONIC FUNDS TRANSFERCENTRAL CONTRACTOR REGISTRATION (MAY 1999) PAYMENT BY ELECTRONIC FUNDS TRANSFEROTHER THAN |
| 64 65 | 52. 232-24 52. 232-27 52. 232-33 52. 232-34 | PROHIBITION OF ASSIGNMENT OF CLAIMS (JAN 1986) PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (JUN 1997) PAYMENT BY ELECTRONIC FUNDS TRANSFERCENTRAL CONTRACTOR REGISTRATION (MAY 1999) PAYMENT BY ELECTRONIC FUNDS TRANSFEROTHER THAN CENTRAL CONTRACTOR REGISTRATION (MAY 1999) |
| 64 65 66 | 52. 232-24 52. 232-27 52. 232-33 52. 232-34 52. 232-7007 | PROHIBITION OF ASSIGNMENT OF CLAIMS (JAN 1986) PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (JUN 1997) PAYMENT BY ELECTRONIC FUNDS TRANSFERCENTRAL CONTRACTOR REGISTRATION (MAY 1999) PAYMENT BY ELECTRONIC FUNDS TRANSFEROTHER THAN CENTRAL CONTRACTOR REGISTRATION (MAY 1999) LIMITATION OF GOVERNMENT'S OBLIGATION (AUG 1993) |
| 64 65 | 52. 232-24 52. 232-27 52. 232-33 52. 232-34 | PROHIBITION OF ASSIGNMENT OF CLAIMS (JAN 1986) PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (JUN 1997) PAYMENT BY ELECTRONIC FUNDS TRANSFERCENTRAL CONTRACTOR REGISTRATION (MAY 1999) PAYMENT BY ELECTRONIC FUNDS TRANSFEROTHER THAN CENTRAL CONTRACTOR REGISTRATION (MAY 1999) LIMITATION OF GOVERNMENT'S OBLIGATION (AUG 1993) LIMITATION OF GOVERNMENT'S OBLIGATION (AUG 1993) |
| 64 65 66 67 | 52. 232-24 52. 232-27 52. 232-33 52. 232-34 52. 232-7007 52. 232-7007 I | PROHIBITION OF ASSIGNMENT OF CLAIMS (JAN 1986) PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (JUN 1997) PAYMENT BY ELECTRONIC FUNDS TRANSFERCENTRAL CONTRACTOR REGISTRATION (MAY 1999) PAYMENT BY ELECTRONIC FUNDS TRANSFEROTHER THAN CENTRAL CONTRACTOR REGISTRATION (MAY 1999) LIMITATION OF GOVERNMENT'S OBLIGATION (AUG 1993) LIMITATION OF GOVERNMENT'S OBLIGATION (AUG 1993) ALTERNATE I (AUG 1993) |
| 64 65 66 67 68 | 52. 232-24 52. 232-27 52. 232-33 52. 232-34 52. 232-7007 52. 232-7007 I | PROHIBITION OF ASSIGNMENT OF CLAIMS (JAN 1986) PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (JUN 1997) PAYMENT BY ELECTRONIC FUNDS TRANSFERCENTRAL CONTRACTOR REGISTRATION (MAY 1999) PAYMENT BY ELECTRONIC FUNDS TRANSFEROTHER THAN CENTRAL CONTRACTOR REGISTRATION (MAY 1999) LIMITATION OF GOVERNMENT'S OBLIGATION (AUG 1993) LIMITATION OF GOVERNMENT'S OBLIGATION (AUG 1993) ALTERNATE I (AUG 1993) DISPUTES (OCT 1995)ALTERNATE I (DEC 1991) |
| 64 65 66 67 | 52. 232-24 52. 232-27 52. 232-33 52. 232-34 52. 232-7007 52. 232-7007 I | PROHIBITION OF ASSIGNMENT OF CLAIMS (JAN 1986) PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (JUN 1997) PAYMENT BY ELECTRONIC FUNDS TRANSFERCENTRAL CONTRACTOR REGISTRATION (MAY 1999) PAYMENT BY ELECTRONIC FUNDS TRANSFEROTHER THAN CENTRAL CONTRACTOR REGISTRATION (MAY 1999) LIMITATION OF GOVERNMENT'S OBLIGATION (AUG 1993) LIMITATION OF GOVERNMENT'S OBLIGATION (AUG 1993) ALTERNATE I (AUG 1993) |
| 64 65 66 67 68 | 52. 232-24 52. 232-27 52. 232-33 52. 232-34 52. 232-7007 52. 232-7007 I | PROHIBITION OF ASSIGNMENT OF CLAIMS (JAN 1986) PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (JUN 1997) PAYMENT BY ELECTRONIC FUNDS TRANSFERCENTRAL CONTRACTOR REGISTRATION (MAY 1999) PAYMENT BY ELECTRONIC FUNDS TRANSFEROTHER THAN CENTRAL CONTRACTOR REGISTRATION (MAY 1999) LIMITATION OF GOVERNMENT'S OBLIGATION (AUG 1993) LIMITATION OF GOVERNMENT'S OBLIGATION (AUG 1993) ALTERNATE I (AUG 1993) DISPUTES (OCT 1995)ALTERNATE I (DEC 1991) |
| 64 65 66 67 68 69 | 52. 232-24 52. 232-27 52. 232-33 52. 232-34 52. 232-7007 52. 232-7007 I 52. 233-1 I 52. 233-3 | PROHIBITION OF ASSIGNMENT OF CLAIMS (JAN 1986) PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (JUN 1997) PAYMENT BY ELECTRONIC FUNDS TRANSFERCENTRAL CONTRACTOR REGISTRATION (MAY 1999) PAYMENT BY ELECTRONIC FUNDS TRANSFEROTHER THAN CENTRAL CONTRACTOR REGISTRATION (MAY 1999) LIMITATION OF GOVERNMENT'S OBLIGATION (AUG 1993) LIMITATION OF GOVERNMENT'S OBLIGATION (AUG 1993) ALTERNATE I (AUG 1993) DISPUTES (OCT 1995)ALTERNATE I (DEC 1991) PROTEST AFTER AWARD (AUG 1996) PERFORMANCE OF WORK BY THE CONTRACTOR (APR 1984) |
| 64 65 66 67 68 69 70 71 | 52. 232-24 52. 232-27 52. 232-33 52. 232-34 52. 232-7007 52. 232-7007 I 52. 233-1 I 52. 233-3 52. 236-1 52. 236-2 | PROHIBITION OF ASSIGNMENT OF CLAIMS (JAN 1986) PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (JUN 1997) PAYMENT BY ELECTRONIC FUNDS TRANSFERCENTRAL CONTRACTOR REGISTRATION (MAY 1999) PAYMENT BY ELECTRONIC FUNDS TRANSFEROTHER THAN CENTRAL CONTRACTOR REGISTRATION (MAY 1999) LIMITATION OF GOVERNMENT'S OBLIGATION (AUG 1993) LIMITATION OF GOVERNMENT'S OBLIGATION (AUG 1993) ALTERNATE I (AUG 1993) DISPUTES (OCT 1995)ALTERNATE I (DEC 1991) PROTEST AFTER AWARD (AUG 1996) PERFORMANCE OF WORK BY THE CONTRACTOR (APR 1984) DIFFERING SITE CONDITIONS (APR 1984) |
| 64 65 66 67 68 69 70 | 52. 232-24 52. 232-27 52. 232-33 52. 232-34 52. 232-7007 52. 232-7007 I 52. 233-1 I 52. 233-3 52. 236-1 | PROHIBITION OF ASSIGNMENT OF CLAIMS (JAN 1986) PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (JUN 1997) PAYMENT BY ELECTRONIC FUNDS TRANSFERCENTRAL CONTRACTOR REGISTRATION (MAY 1999) PAYMENT BY ELECTRONIC FUNDS TRANSFEROTHER THAN CENTRAL CONTRACTOR REGISTRATION (MAY 1999) LIMITATION OF GOVERNMENT'S OBLIGATION (AUG 1993) LIMITATION OF GOVERNMENT'S OBLIGATION (AUG 1993) ALTERNATE I (AUG 1993) DISPUTES (OCT 1995)ALTERNATE I (DEC 1991) PROTEST AFTER AWARD (AUG 1996) PERFORMANCE OF WORK BY THE CONTRACTOR (APR 1984) DIFFERING SITE CONDITIONS (APR 1984) SITE INVESTIGATION AND CONDITIONS AFFECTING THE |
| 64 65 66 67 68 69 70 71 | 52. 232-24 52. 232-27 52. 232-33 52. 232-34 52. 232-7007 52. 232-7007 I 52. 233-1 I 52. 233-3 52. 236-1 52. 236-2 | PROHIBITION OF ASSIGNMENT OF CLAIMS (JAN 1986) PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (JUN 1997) PAYMENT BY ELECTRONIC FUNDS TRANSFERCENTRAL CONTRACTOR REGISTRATION (MAY 1999) PAYMENT BY ELECTRONIC FUNDS TRANSFEROTHER THAN CENTRAL CONTRACTOR REGISTRATION (MAY 1999) LIMITATION OF GOVERNMENT'S OBLIGATION (AUG 1993) LIMITATION OF GOVERNMENT'S OBLIGATION (AUG 1993) ALTERNATE I (AUG 1993) DISPUTES (OCT 1995)ALTERNATE I (DEC 1991) PROTEST AFTER AWARD (AUG 1996) PERFORMANCE OF WORK BY THE CONTRACTOR (APR 1984) DIFFERING SITE CONDITIONS (APR 1984) |

| 74 | 52. 236- 5 | MATERIAL AND WORKMANSHIP (APR 1984) |
|----------------------|----------------------------|---|
| 75 | 52. 236-6 | SUPERINTENDENCE BY THE CONTRACTOR (APR 1984) |
| 76 | 52. 236-7 | PERMITS AND RESPONSIBILITIES (NOV 1991) |
| 77 | 52. 236-8 | OTHER CONTRACTS (APR 1984) |
| 78 | 52. 236-9 | PROTECTION OF EXISTING VEGETATION, STRUCTURES, |
| | | EQUIPMENT, UTILITIES, AND IMPROVEMENTS (APR 1984) |
| 79 | 52. 236- 10 | OPERATIONS AND STORAGE AREAS (APR 1984) |
| 80 | 52. 236-11 | USE AND POSSESSION PRIOR TO COMPLETION (APR 1984) |
| 81 | 52. 236-12 | CLEANING UP (APR 1984) |
| 82 | 52. 236-13 | |
| 83 | 52. 236-13 I | ACCIDENT PREVENTION (NOV 1991) ALTERNATE I |
| | | (NOV 1991) |
| 84 | 52. 236-14 | |
| 85 | 52. 236-15 | |
| 86 | 52. 236-17 | |
| 87 | 52. 236-21 | SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION |
| 0, | 02.200 21 | (FEB 1997) |
| 88 | 52. 236-26 | PRECONSTRUCTION CONFERENCE (FEB 1995) |
| 89 | 52. 236- 7000 | |
| 90 | 52. 236- 7001 | CONTRACT DRAWINGS, MAPS, AND SPECIFICATIONS |
| 30 | 32. 230-7001 | (DEC 1991) |
| 91 | 52. 242-13 | BANKRUPTCY (JUL 1995) |
| 92 | 52. 242-14 | SUSPENSION OF WORK (APR 1984) |
| 93 | 52. 243-4 | CHANGES (AUG 1987) |
| 94 | 52. 243- 7001 | PRICING OF CONTRACT MODIFICATIONS (DEC 1991) |
| 9 4 95 | 52. 244- 6 | SUBCONTRACTS FOR COMMERCIAL ITEMS AND COMMERCIAL |
| 93 | J2. 244-0 | COMPONENTS (OCT 1998) |
| 96 | 52. 246- 12 | INSPECTION OF CONSTRUCTION (AUG 1996) |
| 97 | 52. 246- 12 52. 246- 21 | WARRANTY OF CONSTRUCTION (MAR 1994) |
| 98 | 52. 249- 2 I | TERMINATION FOR CONVENIENCE OF THE GOVERNMENT |
| 90 | J2. 249-2 1 | (FIXED-PRICE) (SEP 1996) ALTERNATE I (SEP 1996) |
| 99 | 52. 249- 10 | DEFAULT (FIXED-PRICE CONSTRUCTION) (APR 1984) |
| | | NOTIFICATION OF ANTICIPATED CONTRACT TERMINATION OR |
| 100 | 52. 249- 7002 | REDUCTION (DEC 1996) |
| 101 | E9 9E9 4 | |
| 101 | 52. 252-4 | ALTERATIONS IN CONTRACT (APR 1984) |
| 102 | 52. 252-6 | |
| 103 | 52. 253-1 | COMPUTER GENERATED FORMS (JAN 1991) |
| | | |

SECTION 00700

CONTRACT CLAUSES

1 52. 252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at these addresses:

http://www.arnet.gov/far http://farsite.hill.af.mil http://www.dtic.mil/dfars (End of clause)

2 52. 201-4001 SUCCESSOR CONTRACTING OFFICERS (52. 0201-4001)

The Contracting Officer who signed this contract is the primary Contracting Officer for the contract. Neverthless, any Contracting Officer assigned to the Seattle District and acting within his/her authority may take formal action on this contract when a contract action needs to be taken and the primary Contracting Officer is unavailable.

3 52. 201-7000 CONTRACTING OFFICER'S REPRESENTATIVE (DEC 1991)

- (a) Definition. "Contracting officer's representative" means an individual designated in accordance with subsection 201.602-2 of the Defense Federal Acquisition Regulation Supplement and authorized in writing by the Contracting Officer to perform specific technical or administrative functions.
- (b) If the Contracting Officer designates a contracting officer's representative (COR), the Contractor will receive a copy of the written designation. It will specify the extent of the COR's authority to act on behalf of the Contracting Officer. The COR is not authorized to make any commitments or changes that will affect price, quality, quantity, delivery, or any other term or condition of the contract.

(End of clause)

4 52. 202-1 I DEFINITIONS (OCT 1995)--ALTERNATE I (APR 1984)

- (a) "Head of the agency" (also called "agency head") or "Secretary" means the Secretary (or Attorney General, Administrator, Governor, Chairperson, or other chief official, as appropriate) of the agency, including any deputy or assistant chief official of the agency; and the term "authorized representative" means any person, persons, or board (other than the Contracting Officer) authorized to act for the head of the agency or Secretary.
 - (b) Commercial component means any component that is a commercial item.
- (c) Component means any item supplied to the Federal Government as part of an end item or of another component.
 - (d) Nondevelopmental item means--
 - (1) Any previously developed item of supply used exclusively for governmental purposes by a Federal agency, a State or local government, or a foreign government with which the United States has a mutual defense

cooperation agreement;

- (2) Any item described in paragraph (e)(1) of this definition that requires only minor modification or modifications of a type customarily available in the commercial marketplace in order to meet the requirements of the procuring department or agency; or
- (3) Any item of supply being produced that does not meet the requirements of paragraph (e)(1) or (e)(2) solely because the item is not yet in use.
- (e) "Contracting Officer" means a person with the authority to enter into, administer, and/or terminate contracts and make related determinations and findings. The term includes certain authorized representatives of the Contracting Officer acting within the limits of their authority as delegated by the Contracting Officer.
- (f) Except as otherwise provided in this contract, the term "subcontracts" includes, but is not limited to, purchase orders and changes and modifications to purchase orders under this contract.

 (End of clause)

5 52. 202-1 DEFINITIONS (SEPT 1991)

- (a) "Head of the agency" (also called "agency head") or "Secretary" means the Secretary (or Attorney General, Administrator, Governor, Chairperson, or other chief official, as appropriate) of the agency, including any deputy or assistant chief official of the agency; and the term "authorized representative" means any person, persons, or board (other than the Contracting Officer) authorized to act for the head of the agency or Secretary.
- (b) "Contracting Officer" means a person with the authority to enter into, administer, and/or terminate contracts and make related determinations and findings. The term includes certain authorized representatives of the Contracting Officer acting within the limits of their authority as delegated by the Contracting Officer.
- (c) The term "head of the agency" or "Secretary" as used herein means the Secretary of the Army; and the term "his duly authorized representative" means the Chief of Engineers, Department of the Army, or and individual or board designated by him.
- (The following clauses are applicable if the procurement instrument identification number is prefixed by the letters DACW')
- (d) The agency board of contract appeals having jurisdiction over all appeals from final decisions of the Contracting Officer under the Contracts Disputes Act of 1978 is the Corps of Engineers Board of Contract Appeals, Room 2103, Pulaski Building, 20 Massachusetts Avenue, N. W., Washington, D. C. 20314-1000.
- (e) Except as otherwise provided in this contract, the term "subcontracts" includes, but is not limited to, purchase orders and changes and modifications to purchase orders under this contract.
- (f) The term "work order" and "delivery order" have the same meaning for the purposes of this contract.
- (The following clause is applicable if the procurement instrument identification number is prefixed by the letters "DACA").

(g) The agency board of contract appeals having jurisdiction over all appeals from final decisions of the Contracting Officer under the Contract Disputes Act of 1978 is the Armed Services Board of Contract Appeals, Skyline Six, 5109 Leesburg Pike, Falls Church, VA 22041-3208.

(End of clause)
(R 7-103.1 1979 MAR)
(R 7-203.1)
(R 7-302.1)
(R 7-402.1)
(R 7-901.1)
(R 7-1902.1)
(R 7-1909.1)

6 52. 203-3 GRATUITIES (APR 1984)

- (a) The right of the Contractor to proceed may be terminated by written notice if, after notice and hearing, the agency head or a designee determines that the Contractor, its agent, or another representative--
 - (1) Offered or gave a gratuity (e.g., an entertainment or gift) to an officer, official, or employee of the Government; and
 - (2) Intended, by the gratuity, to obtain a contract or favorable treatment under a contract.
- (b) The facts supporting this determination may be reviewed by any court having lawful jurisdiction.
- (c) If this contract is terminated under paragraph (a) above, the Government is entitled--
 - (1) To pursue the same remedies as in a breach of the contract; and
 - (2) In addition to any other damages provided by law, to exemplary damages of not less than 3 nor more than 10 times the cost incurred by the Contractor in giving gratuities to the person concerned, as determined by the agency head or a designee. (This subparagraph (c)(2) is applicable only if this contract uses money appropriated to the Department of Defense.)
- (d) The rights and remedies of the Government provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or under this contract.

(End of clause) (R 7-104.16 1952 MAR)

7 52. 203-5 COVENANT AGAINST CONTINGENT FEES (APR 1984)

- (a) The Contractor warrants that no person or agency has been employed or retained to solicit or obtain this contract upon an agreement or understanding for a contingent fee, except a bona fide employee or agency. For breach or violation of this warranty, the Government shall have the right to annul this contract without liability or, in its discretion, to deduct from the contract price or consideration, or otherwise recover, the full amount of the contingent fee.
- (b) "Bona fide agency," as used in this clause, means an established commercial or selling agency, maintained by a contractor for the purpose of securing business, that neither exerts nor proposes to exert improper influence to solicit or obtain Government contracts nor holds itself out as being able to obtain any Government contract or contracts through improper influence.

"Bona fide employee," as used in this clause, means a person, employed by

a Contractor and subject to the Contractor's supervision and control as to time, place, and manner of performance, who neither exerts nor proposes to exert improper influence to solicit or obtain Government contracts nor holds out as being able to obtain any Government contract or contracts through improper influence.

"Contingent fee," as used in this clause, means any commission, percentage, brokerage, or other fee that is contingent upon the success that a person or concern has in securing a Government contract.

"Improper influence," as used in this clause, means any influence that induces or tends to induce a Government employee or officer to give consideration or to act regarding a Government contract on any basis other than the merits of the matter.

(End of clause) (R 7-103. 20 1958 JAN) (R 1-1. 503) (R 1-7. 102-18)

8 52. 203-7 ANTI-KICKBACK PROCEDURES (JUL 1995)

(a) Definitions.

"Kickback," as used in this clause, means any money, fee, commission, credit, gift, gratuity, thing of value, or compensation of any kind which is provided, directly or indirectly, to any prime Contractor, prime Contractor employee, subcontractor, or subcontractor employee for the purpose of improperly obtaining or rewarding favorable treatment in connection with a prime contract or in connection with a subcontract relating to a prime contract.

"Person," as used in this clause, means a corporation, partnership, business association of any kind, trust, joint-stock company, or individual.

"Prime contract," as used in this clause, means a contract or contractual action entered into by the United States for the purpose of obtaining supplies, materials, equipment, or services of any kind.

"Prime Contractor" as used in this clause, means a person who

"Prime Contractor" as used in this clause, means a person who has entered into a prime contract with the United States.

"Prime Contractor employee," as used in this clause, means any officer, partner, employee, or agent of a prime Contractor.

"Subcontract," as used in this clause, means a contract or contractual action entered into by a prime Contractor or subcontractor for the purpose of obtaining supplies, materials, equipment, or services of any kind under a prime contract.

"Subcontractor," as used in this clause, (1) means any person, other than the prime Contractor, who offers to furnish or furnishes any supplies, materials, equipment, or services of any kind under a prime contract or a subcontract entered into in connection with such prime contract, and (2) includes any person who offers to furnish or furnishes general supplies to the prime Contractor or a higher tier subcontractor.

"Subcontractor employee," as used in this clause, means any officer, partner, employee, or agent of a subcontractor.

- (b) The Anti-Kickback Act of 1986 (41 U.S.C. 51-58) (the Act), prohibits any person from-
 - (1) Providing or attempting to provide or offering to provide any kickback;
 - (2) Soliciting, accepting, or attempting to accept any kickback; or
 - (3) Including, directly or indirectly, the amount of any kickback in the contract price charged by a prime Contractor to the United States or

in the contract price charged by a subcontractor to a prime Contractor or higher tier subcontractor.

- (c)(1) The Contractor shall have in place and follow reasonable procedures designed to prevent and detect possible violations described in paragraph (b) of this clause in its own operations and direct business relationships.
 - (2) When the Contractor has reasonable grounds to believe that a violation described in paragraph (b) of this clause may have occurred, the Contractor shall promptly report in writing the possible violation. Such reports shall be made to the inspector general of the contracting agency, the head of the contracting agency if the agency does not have an inspector general, or the Department of Justice.
 - (3) The Contractor shall cooperate fully with any Federal agency investigating a possible violation described in paragraph (b) of this clause.
 - (4) The Contracting Officer may (i) offset the amount of the kickback against any monies owed by the United States under the prime contract and/or (ii) direct that the Prime Contractor withhold from sums owed a subcontractor under the prime contract the amount of the kickback. The Contracting Officer may order that monies withheld under subdivision (c)(4)(ii) of this clause be paid over to the Government unless the Government has already offset those monies under subdivision (c)(4)(i) of this clause. In either case, the Prime Contractor shall notify the Contracting Officer when the monies are withheld.
 - (5) The Contractor agrees to incorporate the substance of this clause, including subparagraph (c)(5) but excepting subparagraph (c)(1), in all subcontracts under this contract which exceed \$100,000.

 (End of clause)

9 52. 203-8 CANCELLATION, RESCISSION, AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY (JAN 1997)

- (a) If the Government receives information that a contractor or a person has engaged in conduct constituting a violation of subsection (a), (b), (c), or (d) of Section 27 of the Office of Federal Procurement Policy Act (41 U.S.C. 423) (the Act), as amended by section 4304 of the National Defense Authorization Act for Fiscal Year 1996 (Pub. L. 104-106), the Government may--
 - (1) Cancel the solicitation, if the contract has not yet been awarded or issued; or
 - (2) Rescind the contract with respect to which--
 - (i) The Contractor or someone acting for the Contractor has been convicted for an offense where the conduct constitutes a violation of subsection 27 (a) or (b) of the Act for the purpose of either--
 - (A) Exchanging the information covered by such subsections for anything of value; or
 - (B) Obtaining or giving anyone a competitive advantage in the award of a Federal agency procurement contract; or
 - (ii) The head of the contracting activity has determined, based upon a preponderance of the evidence, that the Contractor or someone acting for the Contractor has engaged in conduct constituting an offense punishable under subsection 27(e)(1) of the Act.
- (b) If the Government rescinds the contract under paragraph (a) of this clause, the Government is entitled to recover, in addition to any penalty prescribed by law, the amount expended under the contract.
 - (c) The rights and remedies of the Government specified herein are not

exclusive, and are in addition to any other rights and remedies provided by law, regulation, or under this contract.

(End of clause)

10 52. 203-10 PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER ACTIVITY (JAN 1997)

- (a) The Government, at its election, may reduce the price of a fixed-price type contract and the total cost and fee under a cost-type contract by the amount of profit or fee determined as set forth in paragraph (b) of this clause if the head of the contracting activity or designee determines that there was a violation of subsection 27 (a), (b), or (c) of the Office of Federal Procurement Policy Act, as amended (41 U.S.C. 423), as implemented in section 3.104 of the Federal Acquisition Regulation.
- (b) The price or fee reduction referred to in paragraph (a) of this clause shall be--
 - (1) For cost-plus-fixed-fee contracts, the amount of the fee specified in the contract at the time of award;
 - (2) For cost-plus-incentive-fee contracts, the target fee specified in the contract at the time of award, notwithstanding any minimum fee or "fee floor" specified in the contract;
 - (3) For cost-plus-award-fee contracts--
 - (i) The base fee established in the contract at the time of contract award;
 - (ii) If no base fee is specified in the contract, 30 percent of the amount of each award fee otherwise payable to the Contractor for each award fee evaluation period or at each award fee determination point.
 - (4) For fixed-price-incentive contracts, the Government may-
 - (i) Reduce the contract target price and contract target profit both by an amount equal to the initial target profit specified in the contract at the time of contract award; or
 - (ii) If an immediate adjustment to the contract target price and contract target profit would have a significant adverse impact on the incentive price revision relationship under the contract, or adversely affect the contract financing provisions, the Contracting Officer may defer such adjustment until establishment of the total final price of the contract. The total final price established in accordance with the incentive price revision provisions of the contract shall be reduced by an amount equal to the initial target profit specified in the contract at the time of contract award and such reduced price shall be the total final contract price.
 - (5) For firm-fixed-price contracts, by 10 percent of the initial contract price or a profit amount determined by the Contracting Officer from records or documents in existence prior to the date of the contract award.
- (c) The Government may, at its election, reduce a prime contractor's price or fee in accordance with the procedures of paragraph (b) of this clause for violations of the Act by its subcontractors by an amount not to exceed the amount of profit or fee reflected in the subcontract at the time the subcontract was first definitively priced.
- (d) In addition to the remedies in paragraphs (a) and (c) of this clause, the Government may terminate this contract for default. The rights and remedies of the Government specified herein are not exclusive, and are in addition to any other rights and remedies provided by law or under this contract.

(End of clause)

(a) Definitions.

"Agency," as used in this clause, means executive agency as defined in 2. 101.

"Covered Federal action," as used in this clause, means any of the following Federal actions:

- (1) The awarding of any Federal contract.
- (2) The making of any Federal grant.
- (3) The making of any Federal loan.
- (4) The entering into of any cooperative agreement.
- (5) The extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

"Indian tribe" and "tribal organization," as used in this clause, have the meaning provided in section 4 of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450B) and include Alaskan Natives.

"Influencing or attempting to influence," as used in this clause, means making, with the intent to influence, any communication to or appearance before an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any covered Federal action.

"Local government," as used in this clause, means a unit of government in a State and, if chartered, established, or otherwise recognized by a State for the performance of a governmental duty, including a local public authority, a special district, an intrastate district, a council of governments, a sponsor group representative organization, and any other instrumentality of a local government.

"Officer or employee of an agency," as used in this clause, includes the following individuals who are employed by an agency:

- (1) An individual who is appointed to a position in the Government under title 5, United States Code, including a position under a temporary appointment.
- (2) A member of the uniformed services, as defined in subsection 101(3), title 37, United States Code.
- (3) A special Government employee, as defined in section 202, title 18, United States Code.
- (4) An individual who is a member of a Federal advisory committee, as defined by the Federal Advisory Committee Act, title 5, United States Code, appendi x 2.

"Person," as used in this clause, means an individual, corporation, company, association, authority, firm, partnership, society, State, and local government, regardless of whether such entity is operated for profit, or not for profit. This term excludes an Indian tribe, tribal organization, or any other Indian organization with respect to expenditures specifically permitted by other Federal law.

"Reasonable compensation," as used in this clause, means, with respect to a regularly employed officer or employee of any person, compensation that is consistent with the normal compensation for such officer or employee for work that is not furnished to, not funded by, or not furnished in cooperation with the Federal Government.

"Reasonable payment," as used in this clause, means, with respect to professional and other technical services, a payment in an amount that is consistent with the amount normally paid for such services in the private

"Recipient," as used in this clause, includes the Contractor and all subcontractors. This term excludes an Indian tribe, tribal organization, or any other Indian organization with respect to expenditures specifically permitted by other Federal law.

"Regularly employed," as used in this clause, means, with respect to an officer or employee of a person requesting or receiving a Federal contract, an officer or employee who is employed by such person for at least 130 working days within 1 year immediately preceding the date of the submission that initiates agency consideration of such person for receipt of such contract. An officer or employee who is employed by such person for less than 130 working days within 1 year immediately preceding the date of the submission that initiates agency consideration of such person shall be considered to be regularly employed as soon as he or she is employed by such person for 130 working days.

"State," as used in this clause, means a State of the United States, the District of Columbia, the Commonwealth of Puerto Rico, a territory or possession of the United States, an agency or instrumentality of a State, and multi-State, regional, or interstate entity having governmental duties and powers.

- (b) Prohibitions.
- (1) Section 1352 of title 31, United States Code, among other things, prohibits a recipient of a Federal contract, grant, loan, or cooperative agreement from using appropriated funds to pay any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any of the following covered Federal actions: the awarding of any Federal contract; the making of any Federal grant; the making of any Federal loan; the entering into of any cooperative agreement; or the modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) The Act also requires Contractors to furnish a disclosure if any funds other than Federal appropriated funds (including profit or fee received under a covered Federal transaction) have been paid, or will be paid, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a Federal contract, grant, loan, or cooperative agreement.
- (3) The prohibitions of the Act do not apply under the following conditions:
 - (i) Agency and legislative liaison by own employees.
 - (A) The prohibition on the use of appropriated funds, in subparagraph (b)(1) of this clause, does not apply in the case of a payment of reasonable compensation made to an officer or employee of a person requesting or receiving a covered Federal action if the payment is for agency and legislative liaison activities not directly related to a covered Federal action.
 - (B) For purposes of subdivision (b)(3)(i)(A) of this clause, providing any information specifically requested by an agency or Congress is permitted at any time.
 - (C) The following agency and legislative liaison activities are permitted at any time where they are not related to a specific solicitation for any covered Federal action:
 - (1) Discussing with an agency the qualities and characteristics (including individual demonstrations) of the person's products or services, conditions or terms of sale, and service capabilities.
 - (2) Technical discussions and other activities regarding the application or adaptation of the person's products or services for an agency's use.
 - (D) The following agency and legislative liaison activities are

permitted where they are prior to formal solicitation of any covered Federal action--

- (1) Providing any information not specifically requested but necessary for an agency to make an informed decision about initiation of a covered Federal action;
- (2) Technical discussions regarding the preparation of an unsolicited proposal prior to its official submission; and
- (3) Capability presentations by persons seeking awards from an agency pursuant to the provisions of the Small Business Act, as amended by Pub. L. 95-507, and subsequent amendments.
- (E) Only those services expressly authorized by subdivision (b)(3)(i)(A) of this clause are permitted under this clause. (ii) Professional and technical services.
- (A) The prohibition on the use of appropriated funds, in subparagraph (b)(1) of this clause, does not apply in the case of--
- (1) A payment of reasonable compensation made to an officer or employee of a person requesting or receiving a covered Federal action or an extension, continuation, renewal, amendment, or modification of a covered Federal action, if payment is for professional or technical services rendered directly in the preparation, submission, or negotiation of any bid, proposal, or application for that Federal action or for meeting requirements imposed by or pursuant to law as a condition for receiving that Federal action.
- (2) Any reasonable payment to a person, other than an officer or employee of a person requesting or receiving a covered Federal action or an extension, continuation, renewal, amendment, or modification of a covered Federal action if the payment is for professional or technical services rendered directly in the preparation, submission, or negotiation of any bid, proposal, or application for that Federal action or for meeting requirements imposed by or pursuant to law as a condition for receiving that Federal action. Persons other than officers or employees of a person requesting or receiving a covered Federal action include consultants and trade associations.
- (B) For purposes of subdivision (b) (3) (ii) (A) of this clause, "professional and technical services" shall be limited to advice and analysis directly applying any professional or technical discipline. For example, drafting of a legal document accompanying a bid or proposal by a lawyer is allowable. Similarly, technical advice provided by an engineer on the performance or operational capability of a piece of equipment rendered directly in the negotiation of a contract is allowable. However, communications with the intent to influence made by a professional (such as a licensed lawyer) or a technical person (such as a licensed accountant) are not allowable under this section unless they provide advice and analysis directly applying their professional or technical expertise and unless the advice or analysis is rendered directly and solely in the preparation, submission or negotiation of a covered Federal action. Thus, for example, communications with the intent to influence made by a lawyer that do not provide legal advice or analysis directly and solely related to the legal aspects of his or her client's proposal, but generally advocate one proposal over another are not allowable under this section because the lawyer is not providing professional legal services. Similarly, communications with the intent to influence made by an engineer providing an engineering analysis prior to the preparation or submission of a bid or proposal are not allowable under this section

since the engineer is providing technical services but not directly in the preparation, submission or negotiation of a covered Federal action.

- (C) Requirements imposed by or pursuant to law as a condition for receiving a covered Federal award include those required by law or regulation and any other requirements in the actual award documents.
- (D) Only those services expressly authorized by subdivisions (b)(3)(ii)(A)(1) and (2) of this clause are permitted under this clause.
- (E) The reporting requirements of FAR 3.803(a) shall not apply with respect to payments of reasonable compensation made to regularly employed officers or employees of a person.
- (c) Disclosure.
- (1) The Contractor who requests or receives from an agency a Federal contract shall file with that agency a disclosure form, OMB standard form LLL, Disclosure of Lobbying Activities, if such person has made or has agreed to make any payment using nonappropriated funds (to include profits from any covered Federal action), which would be prohibited under subparagraph (b)(1) of this clause, if paid for with appropriated funds.
- (2) The Contractor shall file a disclosure form at the end of each calendar quarter in which there occurs any event that materially affects the accuracy of the information contained in any disclosure form previously filed by such person under subparagraph (c)(1) of this clause. An event that materially affects the accuracy of the information reported includes--
 - (i) A cumulative increase of \$25,000 or more in the amount paid or expected to be paid for influencing or attempting to influence a covered Federal action; or
 - (ii) A change in the person(s) or individual(s) influencing or attempting to influence a covered Federal action; or
 - (iii) A change in the officer(s), employee(s), or Member(s) contacted to influence or attempt to influence a covered Federal action.
- (3) The Contractor shall require the submittal of a certification, and if required, a disclosure form by any person who requests or receives any subcontract exceeding \$100,000 under the Federal contract.
- (4) All subcontractor disclosure forms (but not certifications) shall be forwarded from tier to tier until received by the prime Contractor. The prime Contractor shall submit all disclosures to the Contracting Officer at the end of the calendar quarter in which the disclosure form is submitted by the subcontractor. Each subcontractor certification shall be retained in the subcontract file of the awarding Contractor.
- (d) Agreement. The Contractor agrees not to make any payment prohibited by this clause.
 - (e) Penalties.
 - (1) Any person who makes an expenditure prohibited under paragraph (a) of this clause or who fails to file or amend the disclosure form to be filed or amended by paragraph (b) of this clause shall be subject to civil penalties as provided for by 31 U.S.C. 1352. An imposition of a civil penalty does not prevent the Government from seeking any other remedy that may be applicable.
 - (2) Contractors may rely without liability on the representation made by their subcontractors in the certification and disclosure form.

(f) Cost allowability. Nothing in this clause makes allowable or reasonable any costs which would otherwise be unallowable or unreasonable. Conversely, costs made specifically unallowable by the requirements in this clause will not be made allowable under any other provision.

(End of clause)

- 12 52. 203-7001 PROHIBITION ON PERSONS CONVICTED OF FRAUD OR OTHER DEFENSE-CONTRACT-RELATED FELONIES (MAR 1999)
- (a) Definitions.

As used in this clause--

- (1) "Arising out of a contract with the DoD" means any act in connection with--
 - (i) Attempting to obtain;
 - (ii) Obtaining; or
 - (iii) Performing a contract or first-tier subcontract of any agency, department, or component of the Department of Defense (DoD).
- (2) "Conviction of fraud or any other felony" means any conviction for fraud or a felony in violation of state or Federal criminal statutes, whether entered on a verdict or plea, including a plea of nolo contendere, for which sentence has been imposed.
- (3) "Date of conviction" means the date \hat{j} udgment was entered against the individual.
- (b) Any individual who is convicted after September 29, 1988, of fraud or any other felony arising out of a contract with the DoD is prohibited from serving--
 - (1) In a management or supervisory capacity on any DoD contract or first-tier subcontract;
 - (2) On the board of directors of any DoD contractor or firsttier subcontractor;
 - (3) As a consultant, agent, or representative for any DoD contractor or first-tier subcontractor; or
 - (4) In any other capacity with the authority to influence, advise, or control the decisions of any DoD contractor or subcontractor with regard to any DoD contract or first-tier subcontract.
- (c) Unless waived, the prohibition in paragraph (b) of this clause applies for not less than 5 years from the date of conviction.
- (d) 10 U. S. C. 2408 provides that a defense Contractor or first-tier subcontractor shall be subject to a criminal penalty of not more than \$500,000\$ if convicted of knowingly--
 - (1) Employing a person under a prohibition specified in paragraph (b) of this clause; or
 - (2) Allowing such a person to serve on the board of directors of the Contractor or first-tier subcontractor.
- (e) In addition to the criminal penalties contained in 10 U.S.C. 2408, the Government may consider other available remedies, such as--
 - (1) Suspension or debarment;
 - (2) Cancellation of the contract at no cost to the Government; or
 - (3) Termination of the contract for default.
- (f) The Contractor may submit written requests for waiver of the prohibition in paragraph (b) of this clause to the Contracting Officer. Requests shall clearly identify--
 - (1) The person involved;

- (2) The nature of the conviction and resultant sentence or punishment imposed;
 - (3) The reasons for the requested waiver; and
- (4) An explanation of why a waiver is in the interest of national security.
- (g) The Contractor agrees to include the substance of this clause, appropriately modified to reflect the identity and relationship of the parties, in all first-tier subcontracts exceeding the simplified acquisition threshold in Part 2 of the Federal Acquisition Regulation, except those for commercial items or components.
- except those for commercial items or components.

 (h) Pursuant to 10 U.S.C. 2408(c), defense contractors and subcontractors may obtain information as to whether a particular person has been convicted of fraud or any other felony arising out of a contract with the DoD by contacting The Office of Justice Programs, The Denial of Federal Benefits Office, U.S. Department of Justice, telephone (202) 616-3507.

(End of clause)

13 52. 203-7002 DI SPLAY OF DOD HOTLINE POSTER (DEC 1991)

- (a) The Contractor shall display prominently in common work areas within business segments performing work under Department of Defense (DoD) contracts, DoD Hotline Posters prepared by the DoD Office of the Inspector General.
- (b) DoD Hotline Posters may be obtained from the DoD Inspector General, ATTN: Defense Hotline, 400 Army Navy Drive, Washington, DC 22202-2884.
- (c) The Contractor need not comply with paragraph (a) of this clause if it has established a mechanism, such as a hotline, by which employees may report suspected instances of improper conduct, and instructions that encourage employees to make such reports.

(End of clause)

14 52. 204-4 PRINTING/COPYING DOUBLE-SIDED ON RECYCLED PAPER (JUN 1996)

- (a) In accordance with Executive Order 12873, dated October 20, 1993, as amended by Executive Order 12995, dated March 25, 1996, the Offeror/Contractor is encouraged to submit paper documents, such as offers, letters, or reports, that are printed/copied double-sided on recycled paper that has at least 20 percent postconsumer material.
- (b) The 20 percent standard applies to high-speed copier paper, offset paper, forms bond, computer printout paper, carbonless paper, file folders, white woven envelopes, and other uncoated printed and writing paper, such as writing and office paper, book paper, cotton fiber paper, and cover stock. An alternative to meeting the 20 percent postconsumer material standard is 50 percent recovered material content of certain industrial by-products.

(End of clause)

15 52. 204-7001 COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE REPORTING (DEC 1991)

- (a) The Offeror is requested to enter its CAGE code on its offer in the block with its name and address. The CAGE code entered must be for that name and address. Enter CAGE before the number.
 - (b) If the Offeror does not have a CAGE code, it may ask the Contracting

Officer to request one from the Defense Logistics Services Center (DLSC). The Contracting Officer will--

- (1) Ask the Contractor to complete section B of a DD Form 2051, Request for Assignment of a Commercial and Government Entity (CAGE) Code;
 - (2) Complete section A and forward the form to DLSC; and
 - (3) Notify the Contractor of its assigned CAGE code.
- (c) Do not delay submission of the offer pending receipt of a CAGE code. (End of provision)
- 16 52. 209-6 PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT (JUL 1995)
- (a) The Government suspends or debars Contractors to protect the Government's interest. The Contractor shall not enter into any subcontract in excess of \$25,000 with a Contractor that is debarred, suspended, or proposed for debarment unless there is a compelling reason to do so.
- (b) The Contractor shall require each proposed first-tier subcontractor, whose subcontract will exceed \$25,000, to disclose to the Contractor, in writing, whether as of the time of award of the subcontract, the subcontractor, or its principals, is or is not debarred, suspended, or proposed for debarment by the Federal Government.
- (c) A corporate officer or a designee of the Contractor shall notify the Contracting Officer, in writing, before entering into a subcontract with a party that is debarred, suspended, or proposed for debarment (see FAR 9.404 for information on the List of Parties Excluded from Federal Procurement and Nonprocurement Programs). The notice must include the following:
 - (1) The name of the subcontractor.
 - (2) The Contractor's knowledge of the reasons for the subcontractor being on the List of Parties Excluded from Federal Procurement and Nonprocurement Programs.
 - (3) The compelling reason(s) for doing business with the subcontractor notwithstanding its inclusion on the List of Parties Excluded from Federal Procurement and Nonprocurement Programs.
 - (4) The systems and procedures the Contractor has established to ensure that it is fully protecting the Government's interests when dealing with such subcontractor in view of the specific basis for the party's debarment, suspension, or proposed debarment.

(End of clause)

17 52. 211-13 TIME EXTENSIONS (APR 1984)

Notwithstanding any other provisions of this contract, it is mutually understood that the time extensions for changes in the work will depend upon the extent, if any, by which the changes cause delay in the completion of the various elements of construction. The change order granting the time extension may provide that the contract completion date will be extended only for those specific elements so delayed and that the remaining contract completion dates for all other portions of the work will not be altered and may further provide for an equitable readjustment of liquidated damages under the new completion schedule.

(End of clause)

- 18 52.215-2 AUDIT AND RECORDS--NEGOTIATION (AUG 1996) (Reference 15.209(b))
- 19 52. 215-8 ORDER OF PRECEDENCE--UNIFORM CONTRACT FORMAT (OCT 1997)

Any inconsistency in this solicitation or contract shall be resolved by giving precedence in the following order:

- (a) The Schedule (excluding the specifications).
- (b) Representations and other instructions.
- (c) Contract clauses.
- (d) Other documents, exhibits, and attachments.
- (e) The specifications.

(End of clause)

20 52. 216-4 ECONOMIC PRICE ADJUSTMENT--LABOR AND MATERIAL (JAN 1997)

- (a) The Contractor shall notify the Contracting Officer if, at any time during contract performance, the rates of pay for labor (including fringe benefits) or the unit prices for material shown in the Schedule either increase or decrease. The Contractor shall furnish this notice within 60 days after the increase or decrease, or within any additional period that the Contracting Officer may approve in writing, but not later than the date of final payment under this contract. The notice shall include the Contractor's proposal for an adjustment in the contract unit prices to be negotiated under paragraph (b) below, and shall include, in the form required by the Contracting Officer, supporting data explaining the cause, effective date, and amount of the increase or decrease and the amount of the Contractor's adjustment proposal.
- (b) Promptly after the Contracting Officer receives the notice and data under paragraph (a) above, the Contracting Officer and the Contractor shall negotiate a price adjustment in the contract unit prices and its effective date. However, the Contracting Officer may postpone the negotiations until an accumulation of increases and decreases in the labor rates (including fringe benefits) and unit prices of material shown in the Schedule results in an adjustment allowable under subparagraph (c)(3) below. The Contracting Officer shall modify this contract (1) to include the price adjustment and its effective date and (2) to revise the labor rates (including fringe benefits) or unit prices of material as shown in the Schedule to reflect the increases or decreases resulting from the adjustment. The Contractor shall continue performance pending agreement on, or determination of, any adjustment and its effective date.
- (c) Any price adjustment under this clause is subject to the following limitations:
 - (1) Any adjustment shall be limited to the effect on unit prices of the increases or decreases in the rates of pay for labor (including fringe benefits) or unit prices for material shown in the Schedule. There shall be no adjustment for (i) supplies or services for which the production cost is not affected by such changes, (ii) changes in rates or unit prices other than those shown in the Schedule, or (iii) changes in the quantities of labor or material used from those shown in the Schedule for each item.
 - (2) No upward adjustment shall apply to supplies or services that are required to be delivered or performed before the effective date of the adjustment, unless the Contractor's failure to deliver or perform according to the delivery schedule results from causes beyond the Contractor's control and without its fault or negligence, within the meaning of the Default clause.
 - (3) There shall be no adjustment for any change in rates of pay for

labor (including fringe benefits) or unit prices for material which would not result in a net change of at least 3 percent of the then-current total contract price. This limitation shall not apply, however, if after final delivery of all contract line items, either party requests an adjustment under paragraph (b) above.

- (4) The aggregate of the increases in any contract unit price made under this clause shall not exceed 10 percent of the original unit price. There is no percentage limitation on the amount of decreases that may be made under this clause.
- (d) The Contracting Officer may examine the Contractor's books, records, and other supporting data relevant to the cost of labor (including fringe benefits) and material during all reasonable times until the end of 3 years after the date of final payment under this contract or the time periods specified in Subpart 4.7 of the Federal Acquisition Regulation (FAR), whichever is earlier.

(End of clause)

21 52. 219-8 UTILIZATION OF SMALL BUSINESS CONCERNS (JAN 1999)

- (a) It is the policy of the United States that small business concerns, HUBZone small business concerns, small business concerns owned and controlled by socially and economically disadvantaged individuals, and small business concerns owned and controlled by women shall have the maximum practicable opportunity to participate in performing contracts let by any Federal agency, including contracts and subcontracts for subsystems, assemblies, components, and related services for major systems. It is further the policy of the United States that its prime contractors establish procedures to ensure the timely payment of amounts due pursuant to the terms of their subcontracts with small business concerns, HUBZone small business concerns, small business concerns owned and controlled by socially and economically disadvantaged individuals, and small business concerns owned and controlled by
- (b) The Contractor hereby agrees to carry out this policy in the awarding of subcontracts to the fullest extent consistent with efficient contract performance. The Contractor further agrees to cooperate in any studies or surveys as may be conducted by the United States Small Business Administration or the awarding agency of the United States as may be necessary to determine the extent of the Contractor's compliance with this clause.
 - (c) Definitions. As used in this contract
 - (1) Small business concern means a small business as defined pursuant to section 3 of the Small Business Act and relevant regulations promulgated pursuant thereto.
 - (2) HUBZone small business concern means a small business concern that appears on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration.
 - (3) Small business concern owned and controlled by socially and economically disadvantaged individuals means a small business concern that represents, as part of its offer, that it meets the definition of a small disadvantaged business concern in 13 CFR 124.1002.
 - (4) Small business concern owned and controlled by women means a small business concern--
 - (i) Which is at least 51 percent owned by one or more women, or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and

- (ii) Whose management and daily business operations are controlled by one or more women; and
- (d) Contractors acting in good faith may rely on written representations by their subcontractors regarding their status as a small business concern, a HUBZone small business concern, a small business concern owned and controlled by socially and economically disadvantaged individuals, or a small business concern owned and controlled by women.

(End of clause)

- 22 52. 222-1 NOTICE TO THE GOVERNMENT OF LABOR DISPUTES (FEB 1997) Reference 22. 103-5(a))
- 23 52. 222-3 CONVICT LABOR (AUG 1996)

The Contractor agrees not to employ in the performance of this contract any person undergoing a sentence of imprisonment which has been imposed by any court of a State, the District of Columbia, the Commonwealth of Puerto Rico, the Virgin Islands, Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, or the Trust Territory of the Pacific Islands. This limitation, however, shall not prohibit the employment by the Contractor in the performance of this contract of persons on parole or probation to work at paid employment during the term of their sentence or persons who have been pardoned or who have served their terms. Nor shall it prohibit the employment by the Contractor in the performance of this contract of persons confined for violation of the laws of any of the States, the District of Columbia, the Commonwealth of Puerto Rico, the Virgin Islands, Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, or the Trust Territory of the Pacific Islands who are authorized to work at paid employment in the community under the laws of such jurisdiction, if--

- (a)(1) The worker is paid or is in an approved work training program on a voluntary basis;
- (2) Representatives of local union central bodies or similar labor union organizations have been consulted;
- (3) Such paid employment will not result in the displacement of employed workers, or be applied in skills, crafts, or trades in which there is a surplus of available gainful labor in the locality, or impair existing contracts for services; and
- (4) The rates of pay and other conditions of employment will not be less than those paid or provided for work of a similar nature in the locality in which the work is being performed; and
- (b) The Attorney General of the United States has certified that the work-release laws or regulations of the jurisdiction involved are in conformity with the requirements of Executive Order 11755, as amended by Executive Orders 12608 and 12943.

(End of clause)

24 52. 222-4 CONTRACT WORK HOURS AND SAFETY STANDARDS ACT--OVERTIME COMPENSATION (JUL 1995)

(a) Overtime requirements. No Contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics (see Federal Acquisition Regulation (FAR) 22.300) shall require or permit any such laborers or mechanics in any workweek in which the individual is employed on such work to work in excess

- of 40 hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than 1 1/2 times the basic rate of pay for all hours worked in excess of 40 hours in such workweek.
- (b) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the provisions set forth in paragraph (a) of this clause, the Contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such Contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic employed in violation of the provisions set forth in paragraph (a) of this clause in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of 40 hours without payment of the overtime wages required by provisions set forth in paragraph (a) of this clause.
- (c) Withholding for unpaid wages and liquidated damages. The Contracting Officer shall upon his or her own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the Contractor or subcontractor under any such contract or any other Federal contract with the same Prime Contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act which is held by the same Prime Contractor, such sums as may be determined to be necessary to satisfy any liabilities of such Contractor or subcontractor for unpaid wages and liquidated damages as provided in the provisions set forth in paragraph (b) of this clause.
- (d) Payrolls and basic records. (1) The Contractor or subcontractor shall maintain payrolls and basic payroll records during the course of contract work and shall preserve them for a period of 3 years from the completion of the contract for all laborers and mechanics working on the contract. Such records shall contain the name and address of each such employee, social security number, correct classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. Nothing in this paragraph shall require the duplication of records required to be maintained for construction work by Department of Labor regulations at 29 CFR 5.5(a)(3) implementing the Davis-Bacon Act.
 - (2) The records to be maintained under paragraph (d)(1) of this clause shall be made available by the Contractor or subcontractor for inspection, copying, or transcription by authorized representatives of the Contracting Officer or the Department of Labor. The Contractor or subcontractor shall permit such representatives to interview employees during working hours on the job.
- (e) Subcontracts. The Contractor or subcontractor shall insert in any subcontracts exceeding \$100,000, the provisions set forth in paragraphs (a) through (e) of this clause and also a clause requiring the subcontractors to include these provisions in any lower tier subcontracts. The Prime Contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the provisions set forth in paragraphs (a) through (e) of this clause.

(End of clause)

25 52. 222-6 DAVI S-BACON ACT (FEB 1995)

(a) All laborers and mechanics employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and

without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the Contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (d) of this clause; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such period. Such laborers and mechanics shall be paid not less than the appropriate wage rate and fringe benefits in the wage determination for the classification of work actually performed, without regard to skill, except as provided in the clause entitled Apprentices and Trainees. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein; provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classifications and wage rates conformed under paragraph (b) of this clause) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the Contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

- (b)(1) The Contracting Officer shall require that any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The Contracting Officer shall approve an additional classification and wage rate and fringe benefits therefor only when all the following criteria have been met:
 - (i) The work to be performed by the classification requested is not performed by a classification in the wage determination.
 - (ii) The classification is utilized in the area by the construction industry.
 - (iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.
 - (iv) With respect to helpers, such a classification prevails in the area in which the work is performed.
 - (2) If the Contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the Contracting Officer agree on the classification and wage rate (including the amount designated for fringe benefits, where appropriate), a report of the action taken shall be sent by the Contracting Officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator or an authorized representative will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the Contracting Officer or will notify the Contracting Officer within the 30-day period that additional time is necessary.
 - (3) In the event the Contractor, the laborers or mechanics to be employed in the classification, or their representatives, and the

Contracting Officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the Contracting Officer shall refer the questions, including the views of all interested parties and the recommendation of the Contracting Officer, to the Administrator of the Wage and Hour Division for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the Contracting Officer or will notify the Contracting Officer within the 30-day period that additional time is necessary.

- (4) The wage rate (including fringe benefits, where appropriate) determined pursuant to subparagraphs (b)(2) and (b)(3) of this clause shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.
- (c) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the Contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.
- (d) If the Contractor does not make payments to a trustee or other third person, the Contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program; provided, that the Secretary of Labor has found, upon the written request of the Contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the Contractor to set aside in a separate account assets for the meeting of obligations under the plan or program. (End of clause)

26 52. 222-7 WI THHOLDING OF FUNDS (FEB 1988)

The Contracting Officer shall, upon his or her own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the Contractor under this contract or any other Federal contract with the same Prime Contractor, or any other Federally assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same Prime Contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the Contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the Contracting Officer may, after written notice to the Contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased. (End of clause)

27 52. 222-8 PAYROLLS AND BASIC RECORDS (FEB 1988)

(a) Payrolls and basic records relating thereto shall be maintained by the Contractor during the course of the work and preserved for a period of 3 years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification,

hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made, and actual wages paid. Whenever the Secretary of Labor has found, under paragraph (d) of the clause entitled Davis-Bacon Act, that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the Contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

- (b)(1) The Contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the Contracting Officer. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under paragraph (a) of this clause. This information may be submitted in any form desired. Optional Form WH-347 (Federal Stock Number 029-005-00014-1) is available for this purpose and may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. The Prime Contractor is responsible for the submission of copies of payrolls by all subcontractors.
 - (2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify--
 - (i) That the payroll for the payroll period contains the information required to be maintained under paragraph (a) of this clause and that such information is correct and complete;
 - (ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in the Regulations, 29 CFR Part 3; and
 - (iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
 - (3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by subparagraph (b)(2) of this clause.
 - (4) The falsification of any of the certifications in this clause may subject the Contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 3729 of Title 31 of the United States Code.
- (c) The Contractor or subcontractor shall make the records required under paragraph (a) of this clause available for inspection, copying, or transcription by the Contracting Officer or authorized representatives of

the Contracting Officer or the Department of Labor. The Contractor or subcontractor shall permit the Contracting Officer or representatives of the Contracting Officer or the Department of Labor to interview employees during working hours on the job. If the Contractor or subcontractor fails to submit required records or to make them available, the Contracting Officer may, after written notice to the Contractor, take such action as may be necessary to cause the suspension of any further payment. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

(End of clause)

28 52. 222-9 APPRENTICES AND TRAINEES (FEB 1988)

- (a) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the Contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated in this paragraph, shall be paid not less than the applicable wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the Contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Bureau of Apprenticeship and Training, or a State Apprenticeship Agency recognized by the Bureau, withdraws approval of an apprenticeship program, the Contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.
- (b) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work

performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed in the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate in the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate in the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate in the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the Contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(c) Equal employment opportunity. The utilization of apprentices, trainees, and journeymen under this clause shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.

(End of clause)

29 52. 222-10 COMPLIANCE WITH COPELAND ACT REQUIREMENTS (FEB 1988)

The Contractor shall comply with the requirements of 29 CFR Part 3, which are hereby incorporated by reference in this contract.

(End of clause)

30 52. 222-11 SUBCONTRACTS (LABOR STANDARDS) (FEB 1988)

- (a) The Contractor or subcontractor shall insert in any subcontracts the clauses entitled Davis-Bacon Act, Contract Work Hours and Safety Standards Act--Overtime Compensation, Apprentices and Trainees, Payrolls and Basic Records, Compliance with Copeland Act Requirements, Withholding of Funds, Subcontracts (Labor Standards), Contract Termination--Debarment, Disputes Concerning Labor Standards, Compliance with Davis-Bacon and Related Act Regulations, and Certification of Eligibility, and such other clauses as the Contracting Officer may, by appropriate instructions, require, and also a clause requiring subcontractors to include these clauses in any lower tier subcontracts. The Prime Contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with all the contract clauses cited in this paragraph.
- (b)(1) Within 14 days after award of the contract, the Contractor shall deliver to the Contracting Officer a completed Statement and Acknowledgment

Form (SF 1413) for each subcontract, including the subcontractor's signed and dated acknowledgment that the clauses set forth in paragraph (a) of this clause have been included in the subcontract.

(2) Within 14 days after the award of any subsequently awarded subcontract the Contractor shall deliver to the Contracting Officer an updated completed SF 1413 for such additional subcontract.

(End of clause)

31 52. 222-12 CONTRACT TERMINATION -- DEBARMENT (FEB 1988)

A breach of the contract clauses entitled Davis-Bacon Act, Contract Work Hours and Safety Standards Act--Overtime Compensation, Apprentices and Trainees, Payrolls and Basic Records, Compliance with Copeland Act Requirements, Subcontracts (Labor Standards), Compliance with Davis-Bacon and Related Act Regulations, or Certification of Eligibility may be grounds for termination of the contract, and for debarment as a Contractor and subcontractor as provided in 29 CFR 5.12.

(End of clause)

32 52. 222-13 COMPLIANCE WITH DAVIS-BACON AND RELATED ACT REGULATIONS (FEB 1988)

All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are hereby incorporated by reference in this contract.

(End of clause)

33 52. 222-14 DI SPUTES CONCERNING LABOR STANDARDS (FEB 1988)

The United States Department of Labor has set forth in 29 CFR Parts 5, 6, and 7 procedures for resolving disputes concerning labor standards requirements. Such disputes shall be resolved in accordance with those procedures and not the Disputes clause of this contract. Disputes within the meaning of this clause include disputes between the Contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees of their representatives.

(End of clause)

34 52. 222-15 CERTIFICATION OF ELIGIBILITY (FEB 1988)

- (a) By entering into this contract, the Contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the Contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- (b) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- (c) The penalty for making false statements is prescribed in the U.S. Criminal Code, $18\ U.S.C.\ 1001.$

(End of clause)

- (a) The offeror's attention is called to the Equal Opportunity clause and the Affirmative Action Compliance Requirements for Construction clause of this solicitation.
- (b) The goals for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

| Goals for minority participation | Goals for female participation for |
|----------------------------------|------------------------------------|
| for each trade | each trade |
| 6. 2% | 6. 9% |
| | |

These goals are applicable to all the Contractor's construction work performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, the Contractor shall apply the goals established for the geographical area where the work is actually performed. Goals are published periodically in the Federal Register in notice form, and these notices may be obtained from any Office of Federal Contract Compliance Programs office.

- (c) The Contractor's compliance with Executive Order 11246, as amended, and the regulations in 41 CFR 60-4 shall be based on (1) its implementation of the Equal Opportunity clause, (2) specific affirmative action obligations required by the clause entitled "Affirmative Action Compliance Requirements for Construction," and (3) its efforts to meet the The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each The Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor, or from project to project, for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, Executive Order 11246, as amended, and the regulations in 41 CFR 60-4. Compliance with the goals will be measured against the total work hours performed.
- (d) The Contractor shall provide written notification to the Deputy Assistant Secretary for Federal Contract Compliance, U.S. Department of Labor, within 10 working days following award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the-
 - (1) Name, address, and telephone number of the subcontractor;
 - (2) Employer's identification number of the subcontractor;
 - (3) Estimated dollar amount of the subcontract;
 - (4) Estimated starting and completion dates of the subcontract; and
 - (5) Geographical area in which the subcontract is to be performed.
- (e) As used in this Notice, and in any contract resulting from this solicitation, the "covered area" is Washington/Pierce County/McChord Air Force Base.

(End of provision) (R 7-2003.14(d) 1978 SEP)

36 EQUAL OPPORTUNITY (FEB 1999) 52. 222-26

(a) If, during any 12-month period (including the 12 months preceding

the award of this contract), the Contractor has been or is awarded nonexempt Federal contracts and/or subcontracts that have an aggregate value in excess of \$10,000, the Contractor shall comply with subparagraphs (b)(1) through (11) of this clause. Upon request, the Contractor shall provide information necessary to determine the applicability of this clause.

- (b) During performance of this contract, the Contractor agrees as follows:
 - (1) The Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. However, it shall not be a violation of this clause for the Contractor to extend a publicly announced preference in employment to Indians living on or near an Indian reservation, in connection with employment opportunities on or near an Indian reservation, as permitted by 41 CFR 60-1.5.
 - (2) The Contractor shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, or national origin. This shall include, but not be limited to, (i) employment, (ii) upgrading, (iii) demotion, (iv) transfer, (v) recruitment or recruitment advertising, (vi) layoff or termination, (vii) rates of pay or other forms of compensation, and (viii) selection for training, including apprenticeship.
 - (3) The Contractor shall post in conspicuous places available to employees and applicants for employment the notices to be provided by the Contracting Officer that explain this clause.
 - (4) The Contractor shall, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
 - (5) The Contractor shall send, to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, the notice to be provided by the Contracting Officer advising the labor union or workers' representative of the Contractor's commitments under this clause, and post copies of the notice in conspicuous places available to employees and applicants for employment.
 - (6) The Contractor shall comply with Executive Order 11246, as amended, and the rules, regulations, and orders of the Secretary of Labor.
 - (7) The Contractor shall furnish to the contracting agency all information required by Executive Order 11246, as amended, and by the rules, regulations, and orders of the Secretary of Labor. The Contractor shall also file Standard Form 100 (EEO-1), or any successor form, as prescribed in 41 CFR part 60-1. Unless the Contractor has filed within the 12 months preceding the date of contract award, the Contractor shall, within 30 days after contract award, apply to either the regional Office of Federal Contract Compliance Programs (OFCCP) or the local office of the Equal Employment Opportunity Commission for the necessary forms.
 - (8) The Contractor shall permit access to its premises, during normal business hours, by the contracting agency or the OFCCP for the purpose of conducting on-site compliance evaluations and complaint investigations. The Contractor shall permit the Government to inspect and copy any books, accounts, records (including computerized records), and other material that may be relevant to the matter under investigation and pertinent to compliance with

Executive Order 11246, as amended, and rules and regulations that implement the Executive Order.

- (9) If the OFCCP determines that the Contractor is not in compliance with this clause or any rule, regulation, or order of the Secretary of Labor, this contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further Government contracts, under the procedures authorized in Executive Order 11246, as amended. In addition, sanctions may be imposed and remedies invoked against the Contractor as provided in Executive Order 11246, as amended; in the rules, regulations, and orders of the Secretary of Labor; or as otherwise provided by law.
- (10) The Contractor shall include the terms and conditions of subparagraphs (b)(1) through (11) of this clause in every subcontract or purchase order that is not exempted by the rules, regulations, or orders of the Secretary of Labor issued under Executive Order 11246, as amended, so that these terms and conditions will be binding upon each subcontractor or vendor.
- (11) The Contractor shall take such action with respect to any subcontract or purchase order as the contracting officer may direct as a means of enforcing these terms and conditions, including sanctions for noncompliance; provided, that if the Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of any direction, the Contractor may request the United States to enter into the litigation to protect the interests of the United States.
- (c) Notwithstanding any other clause in this contract, disputes relative to this clause will be governed by the procedures in 41 CFR 60-1.1. (End of clause)

37 52. 222-27 AFFIRMATIVE ACTION COMPLIANCE REQUIREMENTS FOR CONSTRUCTION (FEB 1999)

(a) Definitions.

"Covered area," as used in this clause, means the geographical area described in the solicitation for this contract.

"Deputy Assistant Secretary," as used in this clause, means the Deputy Assistant Secretary for Federal Contract Compliance, U.S. Department of Labor, or a designee.

"Employer's identification number," as used in this clause, means the Federal Social Security number used on the employer's quarterly federal tax return, U.S. Treasury Department Form 941.

"Minority," as used in this clause, means-

- (1) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
- (2) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands);
- (3) Black (all persons having origins in any of the black African racial groups not of Hispanic origin); and
- (4) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race).
- (b) If the Contractor, or a subcontractor at any tier, subcontracts a portion of the work involving any construction trade, each such subcontract in excess of \$10,000 shall include this clause and the Notice containing the goals for minority and female participation stated in the solicitation

for this contract.

- (c) If the Contractor is participating in a Hometown Plan (41 CFR 60-4) approved by the U.S. Department of Labor in a covered area, either individually or through an association, its affirmative action obligations on all work in the plan area (including goals) shall comply with the plan for those trades that have unions participating in the plan. Contractors must be able to demonstrate participation in, and compliance with, the provisions of the plan. Each Contractor or subcontractor participating in an approved plan is also required to comply with its obligations under the Equal Opportunity clause, and to make a good faith effort to achieve each goal under the plan in each trade in which it has employees. The overall good-faith performance by other Contractors or subcontractors toward a goal in an approved plan does not excuse any Contractor's or subcontractor's failure to make good-faith efforts to achieve the plan's goals.
- (d) The Contractor shall implement the affirmative action procedures in subparagraphs (g)(1) through (16) of this clause. The goals stated in the solicitation for this contract are expressed as percentages of the total hours of employment and training of minority and female utilization that the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for the geographical area where that work is actually performed. The Contractor is expected to make substantially uniform progress toward its goals in each craft.
- (e) Neither the terms and conditions of any collective bargaining agreement, nor the failure by a union with which the Contractor has a collective bargaining agreement, to refer minorities or women shall excuse the Contractor's obligations under this clause, Executive Order 11246, as amended, or the regulations thereunder.
- (f) In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
- (g) The Contractor shall take affirmative action to ensure equal employment opportunity. The evaluation of the Contractor's compliance with this clause shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully and implement affirmative action steps at least as extensive as the following:
 - (1) Ensure a working environment free of harassment, intimidation, and coercion at all sites and in all facilities where the Contractor's employees are assigned to work. The Contractor, if possible, will assign two or more women to each construction project. The Contractor shall ensure that foremen, superintendents, and other onsite supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at these sites or facilities.
 - (2) Establish and maintain a current list of sources for minority and female recruitment. Provide written notification to minority and female recruitment sources and community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
 - (3) Establish and maintain a current file of the names, addresses, and telephone numbers of each minority and female off-the-street applicant,

referrals of minorities or females from unions, recruitment sources, or community organizations, and the action taken with respect to each individual. If an individual was sent to the union hiring hall for referral and not referred back to the Contractor by the union or, if referred back, not employed by the Contractor, this shall be documented in the file, along with whatever additional actions the Contractor may have taken.

- (4) Immediately notify the Deputy Assistant Secretary when the union or unions with which the Contractor has a collective bargaining agreement has not referred back to the Contractor a a minority or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
- (5) Develop on-the-job training opportunities and/or participate in training programs for the area that expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under subparagraph (g)(2) of this clause.
 - (6) Disseminate the Contractor's equal employment policy by--
 - (i) Providing notice of the policy to unions and to training, recruitment, and outreach programs, and requesting their cooperation in assisting the Contractor in meeting its contract obligations;
 - (ii) Including the policy in any policy manual and in collective bargaining agreements;
 - (iii) Publicizing the policy in the company newspaper, annual report, etc.;
 - (iv) Reviewing the policy with all management personnel and with all minority and female employees at least once a year; and
 - (v) Posting the policy on bulletin boards accessible to employees at each location where construction work is performed.
- (7) Review, at least annually, the Contractor's equal employment policy and affirmative action obligations with all employees having responsibility for hiring, assignment, layoff, termination, or other employment decisions. Conduct review of this policy with all on-site supervisory personnel before initiating construction work at a job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- (8) Disseminate the Contractor's equal employment policy externally by including it in any advertising in the news media, specifically including minority and female news media. Provide written notification to, and discuss this policy with, other Contractors and subcontractors with which the Contractor does or anticipates doing business.
- (9) Direct recruitment efforts, both oral and written, to minority, female, and community organizations, to schools with minority and female students, and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than 1 month before the date for acceptance of applications for apprenticeship or training by any recruitment source, send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
- (10) Encourage present minority and female employees to recruit minority persons and women. Where reasonable, provide after-school, summer, and vacation employment to minority and female youth both on the

site and in other areas of the Contractor's workforce.

- (11) Validate all tests and other selection requirements where required under 41 CFR 60-3.
- (12) Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities. Encourage these employees to seek or to prepare for, through appropriate training, etc., opportunities for promotion.
- (13) Ensure that seniority practices job classifications, work assignments, and other personnel practices do not have a discriminatory effect by continually monitoring all personnel and employment-related activities to ensure that the Contractor's obligations under this contract are being carried out.
- (14) Ensure that all facilities and company activities are nonsegregated except that separate or single-user rest rooms and necessary dressing or sleeping areas shall be provided to assure privacy between the sexes.
- (15) Maintain a record of solicitations for subcontracts for minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
- (16) Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's equal employment policy and affirmative action obligations.
- (h) The Contractor is encouraged to participate in voluntary associations that may assist in fulfilling one or more of the affirmative action obligations contained in subparagraphs (g)(1) through (16) of this clause. The efforts of a contractor association, joint contractor-union, contractor-community, or similar group of which the contractor is a member and participant may be asserted as fulfilling one or more of its obligations under subparagraphs (g)(1) through (16) of this clause, provided the Contractor--
 - (1) Actively participates in the group;
 - (2) Makes every effort to ensure that the group has a positive impact on the employment of minorities and women in the industry;
 - (3) Ensures that concrete benefits of the program are reflected in the Contractor's minority and female workforce participation;
 - (4) Makes a good-faith effort to meet its individual goals and timetables; and
 - (5) Can provide access to documentation that demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply is the Contractor's, and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.
- (i) A single goal for minorities and a separate single goal for women shall be established. The Contractor is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and nonminority. Consequently, the Contractor may be in violation of Executive Order 11246, as amended, if a particular group is employed in a substantially disparate manner.
- (j) The Contractor shall not use goals or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
- (k) The Contractor shall not enter into any subcontract with any person or firm debarred from Government contracts under Executive Order 11246, as amended.
 - (1) The Contractor shall carry out such sanctions and penalties for

violation of this clause and of the Equal Opportunity clause, including suspension, termination, and cancellation of existing subcontracts, as may be imposed or ordered under Executive Order 11246, as amended, and its implementing regulations, by the OFCCP. Any failure to carry out these sanctions and penalties as ordered shall be a violation of this clause and Executive Order 11246, as amended.

- (m) The Contractor in fulfilling its obligations under this clause shall implement affirmative action procedures at least as extensive as those prescribed in paragraph (g) of this clause, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of Executive Order 11246, as amended, the implementing regulations, or this clause, the Deputy Assistant Secretary shall take action as prescribed in 41 CFR 60-4.8.
 - (n) The Contractor shall designate a responsible official to--
 - (1) Monitor all employment-related activity to ensure that the Contractor's equal employment policy is being carried out;
 - (2) Submit reports as may be required by the Government; and
 - (3) Keep records that shall at least include for each employee the name, address, telephone number, construction trade, union affiliation (if any), employee identification number, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, separate records are not required to be maintained.
- (o) Nothing contained herein shall be construed as a limitation upon the application of other laws that establish different standards of compliance or upon the requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

(End of clause)

38 52. 222-35 AFFIRMATIVE ACTION FOR DISABLED VETERANS AND VETERANS OF THE VIETNAM ERA (APR 1998)

(a) Definitions. As used in this clause--

"All employment openings" includes all positions except executive and top management, those positions that will be filled from within the contractor's organization, and positions lasting 3 days or less. This term includes full-time employment, temporary employment of more than 3 days' duration, and part-time employment.

"Appropriate office of the State employment service system" means the local office of the Federal-State national system of public employment offices with assigned responsibility to serve the area where the employment opening is to be filled, including the District of Columbia, Guam, the Commonwealth of Puerto Rico, and the Virgin Islands.

"Positions that will be filled from within the Contractor's organization" means employment openings for which no consideration will be given to persons outside the Contractor's organization (including any affiliates, subsidiaries, and parent companies) and includes any openings that the Contractor proposes to fill from regularly established "recall" lists. The exception does not apply to a particular opening once an employer decides to consider applicants outside of its organization.

"Veteran of the Vietnam era" means a person who--

- (1) Served on active duty for a period of more than 180 days, any part of which occurred between August 5, 1964, and May 7, 1975, and was discharged or released therefrom with other than a dishonorable discharge; or
- (2) Was discharged or released from active duty for a service-connected disability if any part of such active duty was performed between August 5, 1964, and May 7, 1975.
- (b) General. (1) Regarding any position for which the employee or applicant for employment is qualified, the Contractor shall not discriminate against the individual because the individual is a disabled veteran or a veteran of the Vietnam era. The Contractor agrees to take affirmative action to employ, advance in employment, and otherwise treat qualified disabled veterans and veterans of the Vietnam era without discrimination based upon their disability or veterans' status in all employment practices such as--
 - (i) Employment;
 - (ii) Upgrading;
 - (iii) Demotion or transfer;
 - (iv) Recruitment;
 - (v) Advertising;
 - (vi) Layoff or termination;
 - (vii) Rates of pay or other forms of compensation; and
 - (viii) Selection for training, including apprenticeship.
 - (2) The Contractor agrees to comply with the rules, regulations, and relevant orders of the Secretary of Labor (Secretary) issued under the Vietnam Era Veterans' Readjustment Assistance Act of 1972 (the Act), as amended.
- (c) Listing openings. (1) The Contractor agrees to list all employment openings existing at contract award or occurring during contract performance, at an appropriate office of the State employment service system in the locality where the opening occurs. These openings include those occurring at any Contractor facility, including one not connected with performing this contract. An independent corporate affiliate is exempt from this requirement.
 - (2) State and local government agencies holding Federal contracts of \$10,000 or more shall also list all employment openings with the appropriate office of the State employment service.
 - (3) The listing of employment openings with the State employment service system is required at least concurrently with using any other recruitment source or effort and involves the obligations of placing a bona fide job order, including accepting referrals of veterans and nonveterans. This listing does not require hiring any particular job applicant or hiring from any particular group of job applicants and is not intended to relieve the Contractor from any requirements of Executive orders or regulations concerning nondiscrimination in employment.
 - (4) Whenever the Contractor becomes contractually bound to the listing terms of this clause, it shall advise the State employment service system, in each State where it has establishments, of the name and location of each hiring location in the State. As long as the Contractor is contractually bound to these terms and has so advised the State system, it need not advise the State system of subsequent contracts. The Contractor may advise the State system when it is no longer bound by this contract clause.
- (d) Applicability. This clause does not apply to the listing of employment openings that occur and are filled outside the 50 States, the

District of Columbia, the Commonwealth of Puerto Rico, Guam, and the Virgin Islands.

- (e) Postings. (1) The Contractor agrees to post employment notices stating (i) the Contractor's obligation under the law to take affirmative action to employ and advance in employment qualified disabled veterans and veterans of the Vietnam era, and (ii) the rights of applicants and employees.
 - (2) These notices shall be posted in conspicuous places that are available to employees and applicants for employment. They shall be in a form prescribed by the Deputy Assistant Secretary for Federal Contract Compliance Programs, Department of Labor (Deputy Assistant Secretary), and provided by or through the Contracting Officer.
 - (3) The Contractor shall notify each labor union or representative of workers with which it has a collective bargaining agreement or other contract understanding, that the Contractor is bound by the terms of the Act, and is committed to take affirmative action to employ, and advance in employment, qualified disabled veterans and veterans of the Vietnam era.
- (f) Noncompliance. If the Contractor does not comply with the requirements of this clause, appropriate actions may be taken under the rules, regulations, and relevant orders of the Secretary issued pursuant to the Act.
- (g) Subcontracts. The Contractor shall include the terms of this clause in every subcontract or purchase order of \$10,000 or more unless exempted by rules, regulations, or orders of the Secretary. The Contractor shall act as specified by the Deputy Assistant Secretary to enforce the terms, including action for noncompliance.

 (End of clause)

39 52. 222-36 AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES (JUN 1998)

- (a) General. (1) Regarding any position for which the employee or applicant for employment is qualified, the Contractor shall not discriminate against any employee or applicant because of physical or mental disability. The Contractor agrees to take affirmative action to employ, advance in employment, and otherwise treat qualified individuals with disabilities without discrimination based upon their physical or mental disability in all employment practices such as--
 - (i) Recruitment, advertising, and job application procedures;
 - (ii) Hiring, upgrading, promotion, award of tenure, demotion, transfer, layoff, termination, right of return from layoff, and rehiring;
 - (iii) Rates of pay or any other form of compensation and changes in compensation;
 - (iv) Job assignments, job classifications, organizational structures, position descriptions, lines of progression, and seniority lists;
 - (v) Leaves of absence, sick leave, or any other leave;
 - (vi) Fringe benefits available by virtue of employment, whether or not administered by the Contractor;
 - (vii) Selection and financial support for training, including apprenticeships, professional meetings, conferences, and other related activities, and selection for leaves of absence to pursue training;

- (viii) Activities sponsored by the Contractor, including social or recreational programs; and
 - (ix) Any other term, condition, or privilege of employment.
- (2) The Contractor agrees to comply with the rules, regulations, and relevant orders of the Secretary of Labor (Secretary) issued under the Rehabilitation Act of 1973 (29 U.S.C. 793) (the Act), as amended.
- (b) Postings. (1) The Contractor agrees to post employment notices stating--
 - (i) The Contractor's obligation under the law to take affirmative action to employ and advance in employment qualified individuals with disabilities; and
 - (ii) The rights of applicants and employees.
 - (2) These notices shall be posted in conspicuous places that are available to employees and applicants for employment. The Contractor shall ensure that applicants and employees with disabilities are informed of the contents of the notice (e.g., the Contractor may have the notice read to a visually disabled individual, or may lower the posted notice so that it might be read by a person in a wheelchair). The notices shall be in a form prescribed by the Deputy Assistant Secretary for Federal Contract Compliance of the U.S. Department of Labor (Deputy Assistant Secretary) and shall be provided by or through the Contracting Officer.
 - (3) The Contractor shall notify each labor union or representative of workers with which it has a collective bargaining agreement or other contract understanding, that the Contractor is bound by the terms of Section 503 of the Act and is committed to take affirmative action to employ, and advance in employment, qualified individuals with physical or mental disabilities.
- (c) Noncompliance. If the Contractor does not comply with the requirements of this clause, appropriate actions may be taken under the rules, regulations, and relevant orders of the Secretary issued pursuant to the Act.
- (d) Subcontracts. The Contractor shall include the terms of this clause in every subcontract or purchase order in excess of \$10,000 unless exempted by rules, regulations, or orders of the Secretary. The Contractor shall act as specified by the Deputy Assistant Secretary to enforce the terms, including action for noncompliance.

 (End of clause)

40 52. 222-37 EMPLOYMENT REPORTS ON DISABLED VETERANS AND VETERANS OF THE VIETNAM ERA (JAN 1999)

- (a) Unless the Contractor is a State or local government agency, the Contractor shall report at least annually, as required by the Secretary of Labor, on--
 - (1) The number of disabled veterans and the number of veterans of the Vietnam era in the workforce of the Contractor by job category and hiring location; and
 - (2) The total number of new employees hired during the period covered by the report, and of that total, the number of disabled veterans, and the number of veterans of the Vietnam era.
- (b) The above items shall be reported by completing the form entitled "Federal Contractor Veterans' Employment Report VETS-100."
- (c) Reports shall be submitted no later than September 30 of each year beginning September 30, 1988.

- (d) The employment activity report required by paragraph (a)(2) of this clause shall reflect total hires during the most recent 12-month period as of the ending date selected for the employment profile report required by paragraph (a)(1) of this clause. Contractors may select an ending date: (1) As of the end of any pay period during the period January through March 1st of the year the report is due, or (2) as of December 31, if the contractor has previous written approval from the Equal Employment Opportunity Commission to do so for purposes of submitting the Employer Information Report EEO-1 (Standard Form 100).
- (e) The count of veterans reported according to paragraph (a) of this clause shall be based on voluntary disclosure. Each Contractor subject to the reporting requirements at 38 U.S.C. 4212 shall invite all disabled veterans and veterans of the Vietnam era who wish to benefit under the affirmative action program at 38 U.S.C. 4212 to identify themselves to the Contractor. The invitation shall state that the information is voluntarily provided; that the information will be kept confidential; that disclosure or refusal to provide the information will not subject the applicant or employee to any adverse treatment; and that the information will be used only in accordance with the regulations promulgated under 38 U.S.C. 4212.
- (f) Subcontracts. The Contractor shall include the terms of this clause in every subcontract or purchase order of \$10,000 or more unless exempted by rules, regulations, or orders of the Secretary.

(End of clause)

41 52. 223-2 CLEAN AIR AND WATER (APR 1984)

(a) "Air Act", as used in this clause, means the Clean Air Act (42 U.S.C. 7401, et seq.).

"Clean air standards," as used in this clause, means--

- (1) Any enforceable rules, regulations, guidelines, standards, limitations, orders, controls, prohibitions, work practices, or other requirements contained in, issued under, or otherwise adopted under the Air Act or Executive Order 11738;
- (2) An applicable implementation plan as described in section 110(d) of the Air Act (42 U.S.C. 7410(d));
- (3) An approved implementation procedure or plan under section 111(c) or section 111(d) of the Air Act (42 U.S.C. 7411(c) or (d)); or
- (4) An approved implementation procedure under section 112(d) of the Air Act (42 U.S.C. 7412(d)).

"Clean water standards," as used in this clause, means any enforceable limitation, control, condition, prohibition, standard, or other requirement promulgated under the Water Act or contained in a permit issued to a discharger by the EPA or by a State under an approved program, as authorized by section 402 of the Water Act (33 U.S.C. 1342), or by local government to ensure compliance with pretreatment regulations as required by section 307 of the Water Act (33 U.S.C. 1317).

"Compliance," as used in this clause, means compliance with--

- (1) Clean air or water standards; or
- (2) A schedule or plan ordered or approved by a court of competent jurisdiction, the EPA, or an air or water pollution control agency under the requirements of the Air Act or Water Act and related regulations.

"Facility," as used in this clause, means any building, plant, installation, structure, mine, vessel or other floating craft, location, or site of operations, owned, leased, or supervised by a Contractor or subcontractor, used in the performance of a contract or subcontract. When

a location or site of operations includes more than one building, plant, installation, or structure, the entire location or site shall be deemed a facility except when the Administrator, or a designee, of the EPA determines that independent facilities are collocated in one geographical area.

"Water Act," as used in this clause, means Clean Water Act (33 U.S.C. 1251, et seq.).

- (b) The Contractor agrees--
- (1) To comply with all the requirements of section 114 of the Clean Air Act (42 U.S.C. 7414) and section 308 of the Clean Water Act (33 U.S.C. 1318) relating to inspection, monitoring, entry, reports, and information, as well as other requirements specified in section 114 and section 308 of the Air Act and the Water Act, and all regulations and guidelines issued to implement those acts before the award of this contract;
- (2) That no portion of the work required by this prime contract will be performed in a facility listed on the EPA List of Violating Facilities on the date when this contract was awarded unless and until the EPA eliminates the name of the facility from the listing;
- (3) To use best efforts to comply with clean air standards and clean water standards at the facility in which the contract is being performed; and
- (4) To insert the substance of this clause into any nonexempt subcontract, including this subparagraph (b)(4).

(End of clause) (R 7-103.29 1975 0CT) (R 1-1.2302)

42 52. 223-3 HAZARDOUS MATERIAL IDENTIFICATION AND MATERIAL SAFETY DATA (JAN 1997)

- (a) "Hazardous material," as used in this clause, includes any material defined as hazardous under the latest version of Federal Standard No. 313 (including revisions adopted during the term of the contract).
- (b) The Offeror must list any hazardous material, as defined in paragraph (a) of this clause, to be delivered under this contract. The hazardous material shall be properly identified and include any applicable identification number, such as National Stock Number or Special Item Number. This information shall also be included on the Material Safety Data Sheet submitted under this contract.

Material Identification No. (If none, insert None)

⁽c) This list must be updated during performance of the contract whenever the Contractor determines that any other material to be delivered under this contract is hazardous.

⁽d) The apparently successful Offeror agrees to submit, for each item as required prior to award, a Material Safety Data Sheet, meeting the requirements of 29 CFR 1910.1200(g) and the latest version of Federal Standard No. 313, for all hazardous material identified in paragraph (b) of this clause. Data shall be submitted in accordance with Federal Standard No. 313, whether or not the apparently successful Offeror is the actual manufacturer of these items. Failure to submit the Material Safety Data Sheet prior to award may result in the apparently successful Offeror

being considered nonresponsible and ineligible for award.

- (e) If, after award, there is a change in the composition of the item(s) or a revision to Federal Standard No. 313, which renders incomplete or inaccurate the data submitted under paragraph (d) of this clause, the Contractor shall promptly notify the Contracting Officer and resubmit the data.
- (f) Neither the requirements of this clause nor any act or failure to act by the Government shall relieve the Contractor of any responsibility or liability for the safety of Government, Contractor, or subcontractor personnel or property.
- (g) Nothing contained in this clause shall relieve the Contractor from complying with applicable Federal, State, and local laws, codes, ordinances, and regulations (including the obtaining of licenses and permits) in connection with hazardous material.
- (h) The Government's rights in data furnished under this contract with respect to hazardous material are as follows:
 - (1) To use, duplicate and disclose any data to which this clause is applicable. The purposes of this right are to--
 - (i) Apprise personnel of the hazards to which they may be exposed in using, handling, packaging, transporting, or disposing of hazardous materials;
 - (ii) Obtain medical treatment for those affected by the material;and
 - (iii) Have others use, duplicate, and disclose the data for the Government for these purposes.
 - (2) To use, duplicate, and disclose data furnished under this clause, in accordance with subparagraph (h)(1) of this clause, in precedence over any other clause of this contract providing for rights in data.
 - (3) The Government is not precluded from using similar or data acquired from other sources.

(End of clause)

43 52. 223-5 POLLUTION PREVENTION AND RIGHT-TO-KNOW INFORMATION (APR 1998)

- (a) Executive Order 12856 of August 3, 1993, requires Federal facilities to comply with the provisions of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) (42 U.S.C. 11001-11050) and the Pollution Prevention Act of 1990 (PPA) (42 U.S.C. 13101-13109).
- (b) The Contractor shall provide all information needed by the Federal facility to comply with the emergency planning reporting requirements of Section 302 of EPCRA; the emergency notice requirements of Section 304 of EPCRA; the list of Material Data Safety Sheets required by Section 311 of EPCRA; the emergency and hazardous chemical inventory forms of Section 312 of EPCRA; the toxic chemical release inventory of Section 313 of EPCRA, which includes the reduction and recycling information required by Section 6607 of PPA; and the toxic chemical reduction goals requirements of Section 3-302 of Executive Order 12856.

(End of clause)

44 52. 223-6 DRUG-FREE WORKPLACE (JAN 1997)

(a) Definitions. As used in this clause--

"Controlled substance" means a controlled substance in schedules I through V of section 202 of the Controlled Substances Act (21 U.S.C. 812)

and as further defined in regulation at 21 CFR 1308.11 - 1308.15.

"Conviction" means a finding of guilt (including a plea of nolo contendere) or imposition of sentence, or both, by any judicial body charged with the responsibility to determine violations of the Federal or State criminal drug statutes.

"Criminal drug statute" means a Federal or non-Federal criminal statute involving the manufacture, distribution, dispensing, possession or use of any controlled substance.

"Drug-free workplace" means the site(s) for the performance of work done by the Contractor in connection with a specific contract at which employees of the Contractor are prohibited from engaging in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance.

"Employee" means an employee of a Contractor directly engaged in the performance of work under a Government contract. "Directly engaged" is defined to include all direct cost employees and any other Contractor employee who has other than a minimal impact or involvement in contract performance.

"Individual" means an offeror/contractor that has no more than one employee including the offeror/contractor.

- (b) The Contractor, if other than an individual, shall--within 30 days after award (unless a longer period is agreed to in writing for contracts of 30 days or more performance duration), or as soon as possible for contracts of less than 30 days performance duration--
 - (1) Publish a statement notifying its employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the Contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition;
 - (2) Establish an ongoing drug-free awareness program to inform such employees about--
 - (i) The dangers of drug abuse in the workplace;
 - (ii) The Contractor's policy of maintaining a drug-free workplace;
 - (iii) Any available drug counseling, rehabilitation, and employee assistance programs; and
 - (iv) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
 - (3) Provide all employees engaged in performance of the contract with a copy of the statement required by subparagraph (b)(1) of this clause;
 - (4) Notify such employees in writing in the statement required by subparagraph (b)(1) of this clause that, as a condition of continued employment on this contract, the employee will--
 - (i) Abide by the terms of the statement; and
 - (ii) Notify the employer in writing of the employee's conviction under a criminal drug statute for a violation occurring in the workplace no later than 5 days after such conviction.
 - (5) Notify the Contracting Officer in writing within 10 days after receiving notice under subdivision (b)(4)(ii) of this clause, from an employee or otherwise receiving actual notice of such conviction. The notice shall include the position title of the employee;
 - (6) Within 30 days after receiving notice under subdivision (b)(4)(ii) of this clause of a conviction, take one of the following actions with respect to any employee who is convicted of a drug abuse violation occurring in the workplace:
 - (i) Taking appropriate personnel action against such employee, up to and including termination; or
 - (ii) Require such employee to satisfactorily participate in a drug abuse assistance or rehabilitation program approved for such purposes

- by a Federal, State, or local health, law enforcement, or other appropriate agency, and
- (7) Make a good faith effort to maintain a drug-free workplace through implementation of subparagraphs (b)(1) through (b)(6) of this clause.
- (c) The Contractor, if an individual, agrees by award of the contract or acceptance of a purchase order, not to engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance while performing this contract.
- (d) In addition to other remedies available to the Government, the Contractor's failure to comply with the requirements of paragraph (b) or (c) of this clause may, pursuant to FAR 23.506, render the Contractor subject to suspension of contract payments, termination of the contract for default, and suspension or debarment.

(End of clause)

- 45 52. 223-14 TOXIC CHEMICAL RELEASE REPORTING (OCT 1996) (Reference 23. 907(b))
- 46 52. 223-7001 HAZARD WARNING LABELS (DEC 1991)
- (a) "Hazardous material," as used in this clause, is defined in the Hazardous Material Identification and Material Safety Data clause of this contract.
- (b) The Contractor shall label the item package (unit container) of any hazardous material to be delivered under this contract in accordance with the Hazard Communication Standard (29 CFR 1910.1200 et seq.). The Standard requires that the hazard warning label conform to the requirements of the standard unless the material is otherwise subject to the labelling requirements of one of the following statutes:
 - (1) Federal Insecticide, Fungicide and Rodenticide Act;
 - (2) Federal Food, Drug and Cosmetics Act;
 - (3) Consumer Product Safety Act;
 - (4) Federal Hazardous Substances Act; or
 - (5) Federal Alcohol Administration Act.
- (c) The Offeror shall list which hazardous material listed in the Hazardous Material Identification and Material Safety Data clause of this contract will be labelled in accordance with one of the Acts in paragraphs (b)(1) through (5) of this clause instead of the Hazard Communication Standard. Any hazardous material not listed will be interpreted to mean that a label is required in accordance with the Hazard Communication Standard.

| Material (if none, insert "none.") | Act |
|------------------------------------|-----|
| | |
| | |

- (d) The apparently successful Offeror agrees to submit, before award, a copy of the hazard warning label for all hazardous materials not listed in paragraph (c) of this clause. The Offeror shall submit the label with the Material Safety Data Sheet being furnished under the Hazardous Material Identification and Material Safety Data clause of this contract.
- (e) The Contractor shall also comply with ML-STD-129, Marking for Shipment and Storage (including revisions adopted during the term of this contract).

(End of clause)

- (a) Definitions.
- (1) "Employee in a sensitive position," as used in this clause, means an employee who has been granted access to classified information; or employees in other positions that the Contractor determines involve national security, health or safety, or functions other than the foregoing requiring a high degree of trust and confidence.
- (2) "Illegal drugs," as used in this clause, means controlled substances included in Schedules I and II, as defined by section 802(6) of Title 21 of the United States Code, the possession of which is unlawful under Chapter 13 of that Title. The term "illegal drugs" does not mean the use of a controlled substance pursuant to a valid prescription or other uses authorized by law.
- (b) The Contractor agrees to institute and maintain a program for achieving the objective of a drug-free work force. While this clause defines criteria for such a program, contractors are encouraged to implement alternative approaches comparable to the criteria in paragraph (c) that are designed to achieve the objectives of this clause.
- (c) Contractor programs shall include the following, or appropriate al ternatives:
 - (1) Employee assistance programs emphasizing high level direction, education, counseling, rehabilitation, and coordination with available community resources;
 - (2) Supervisory training to assist in identifying and addressing illegal drug use by Contractor employees;
 - (3) Provision for self-referrals as well as supervisory referrals to treatment with maximum respect for individual confidentiality consistent with safety and security issues;
 - (4) Provision for identifying illegal drug users, including testing on a controlled and carefully monitored basis. Employee drug testing programs shall be established taking account of the following:
 - (i) The Contractor shall establish a program that provides for testing for the use of illegal drugs by employees in sensitive positions. The extent of and criteria for such testing shall be determined by the Contractor based on considerations that include the nature of the work being performed under the contract, the employee's duties, the efficient use of Contractor resources, and the risks to health, safety, or national security that could result from the failure of an employee adequately to discharge his or her position.
 - (ii) In addition, the Contractor may establish a program for employee drug testing--
 - (A) When there is a reasonable suspicion that an employee uses illegal drugs; or
 - (B) When an employee has been involved in an accident or unsafe practi ce;
 - (C) As part of or as a follow-up to counseling or rehabilitation for illegal drug use;
 (D) As part of a voluntary employee drug testing program.
 - (iii) The Contractor may establish a program to test applicants for employment for illegal drug use.
 - (iv) For the purpose of administering this clause, testing for illegal drugs may be limited to those substances for which testing is prescribed by section 2.1 of Subpart B of the "Mandatory Guidelines for Federal Workplace Drug Testing Programs" (53 FR 11980 (April 11 1988)), issued by the Department of Health and Human Services.
 - (d) Contractors shall adopt appropriate personnel procedures to deal with

employees who are found to be using drugs illegally. Contractors shall not allow any employee to remain on duty or perform in a sensitive position who is found to use illegal drugs until such time as the Contractor, in accordance with procedures established by the Contractor, determines that the employee may perform in such a position.

(e) The provisions of this clause pertaining to drug testing programs shall not apply to the extent they are inconsistent with state or local law, or with an existing collective bargaining agreement; provided that with respect to the latter, the Contractor agrees that those issues that are in conflict will be a subject of negotiation at the next collective bargaining session.

(End of clause)

- 48 52. 227-1 AUTHORIZATION AND CONSENT (JUL 1995) (Reference 27. 201-2(a))
 49 52. 227-7023 DRAWINGS AND OTHER DATA TO BECOME PROPERTY OF GOVERNMENT
 (MAR 1979)
- All designs, drawings, specifications, notes and other works developed in the performance of this contract shall become the sole property of the Government and may be used on any other design or construction without additional compensation to the Contractor. The Government shall be considered the "person for whom the work was prepared" for the purpose of authorship in any copyrightable work under 17 U.S.C. 201(b). With respect thereto, the Contractor agrees not to assert or authorize others to assert any rights nor establish any claim under the design patent or copyright laws. The Contractor for a period of three (3) years after completion of the project agrees to furnish all retained works on the request of the Contracting Officer. Unless otherwise provided in this contract, the Contractor shall have the right to retain copies of all works beyond such period.

(End of clause)

50 52. 227-7033 RIGHTS IN SHOP DRAWINGS (APR 1966)

- (a) Shop drawings for construction means drawings, submitted to the Government by the Construction Contractor, subcontractor or any lower-tier subcontractor pursuant to a construction contract, showing in detail (i) the proposed fabrication and assembly of structural elements and (ii) the installation (i.e., form, fit, and attachment details) of materials or equipment. The Government may duplicate, use, and disclose in any manner and for any purpose shop drawings delivered under this contract.
- (b) This clause, including this paragraph (b), shall be included in all subcontracts hereunder at any tier.

(End of clause)

51 52. 228-11 PLEDGES OF ASSETS (FEB 1992)

- (a) Offerors shall obtain from each person acting as an individual surety on a bid guarantee, a performance bond, or a payment bond--
 - (1) Pledge of assets; and
 - (2) Standard Form 28, Affidavit of Individual Surety.
- (b) Pledges of assets from each person acting as an individual surety shall be in the form of--
 - (1) Evidence of an escrow account containing cash, certificates of

deposit, commercial or Government securities, or other assets described in FAR 28.203-2 (except see 28.203-2(b)(2) with respect to Government securities held in book entry form) and/or;

- (2) A recorded lien on real estate. The offeror will be required to provide--
 - (i) Evidence of title in the form of a certificate of title prepared by a title insurance company approved by the United States Department of Justice. This title evidence must show fee simple title vested in the surety along with any concurrent owners; whether any real estate taxes are due and payable; and any recorded encumbrances against the property, including the lien filed in favor of the Government as required by FAR 28.203-3(d);
 - (ii) Evidence of the amount due under any encumbrance shown in the evidence of title;
 - (iii) A copy of the current real estate tax assessment of the property or a current appraisal dated no earlier than 6 months prior to the date of the bond, prepared by a professional appraiser who certifies that the appraisal has been conducted in accordance with the generally accepted appraisal standards as reflected in the Uniform Standards of Professional Appraisal Practice, as promulgaged by the Appraisal Foundation.

(End of clause)

52 52. 228-12 PROSPECTIVE SUBCONTRACTOR REQUESTS FOR BONDS (OCT 1995)

In accordance with Section 806(a)(3) of Pub. L. 102-190, as amended by Sections 2091 and 8105 of Pub. L. 103-355, upon the request of a prospective subcontractor or supplier offering to furnish labor or material for the performance of this contract for which a payment bond has been furnished to the Government pursuant to the Miller Act, the Contractor shall promptly provide a copy of such payment bond to the requester.

(End of clause)

53 52. 228-14 IRREVOCABLE LETTER OF CREDIT (OCT 1997)

- (a) "Irrevocable letter of credit" (ILC), as used in this clause, means a written commitment by a federally insured financial institution to pay all or part of a stated amount of money, until the expiration date of the letter, upon presentation by the Government (the beneficiary) of a written demand therefor. Neither the financial institution nor the offeror/Contractor can revoke or condition the letter of credit.
- (b) If the offeror intends to use an ILC in lieu of a bid bond, or to secure other types of bonds such as performance and payment bonds, the letter of credit and letter of confirmation formats in paragraphs (e) and (f) of this clause shall be used.
- (c) The letter of credit shall be irrevocable, shall require presentation of no document other than a written demand and the ILC (including confirming letter, if any), shall be issued/confirmed by an acceptable federally insured financial institution as provided in paragraph (d) of this clause. and--
 - (1) If used as a bid guarantee, the ILC shall expire no earlier than 60 days after the close of the bid acceptance period;
 - (2) If used as an alternative to corporate or individual sureties as security for a performance or payment bond, the offeror/Contractor may submit an ILC with an initial expiration date estimated to cover the

entire period for which financial security is required or may submit an ILC with an initial expiration date that is a minimum period of one year from the date of issuance. The ILC shall provide that, unless the issuer provides the beneficiary written notice of non-renewal at least 60 days in advance of the current expiration date, the ILC is automatically extended without amendment for one year from the expiration date, or any future expiration date, until the period of required coverage is completed and the Contracting Officer provides the financial institution with a written statement waiving the right to payment. The period of required coverage shall be:

- (i) For contracts subject to the Miller Act, the later of--
 - (A) One year following the expected date of final payment;
- (B) For performance bonds only, until completion of any warranty period; or
- (C) For payment bonds only, until resolution of all claims filed against the payment bond during the one-year period following final payment.
- (ii) For contracts not subject to the Miller Act, the later of--
 - (A) 90 days following final payment; or
- (B) For performance bonds only, until completion of any warranty period.
- (d) Only federally insured financial institutions rated investment grade or higher shall issue or confirm the ILC. The offeror/Contractor shall provide the Contracting Officer a credit rating that indicates the financial institution has the required rating(s) as of the date of issuance of the ILC. Unless the financial institution issuing the ILC had letter of credit business of at least \$25 million in the past year, ILCs over \$5 million must be confirmed by another acceptable financial institution that had letter of credit business of at least \$25 million in the past year.
- (e) The following format shall be used by the issuing financial institution to create an ILC:

| (Issuing Financial Institution's Letterhead or Name and Address) |
|--|
| Issue Date |
| Irrevocable Letter of Credit No. |
| Account party's name |
| Account party's address |
| For Solicitation No. |
| |

(For reference only)

- T0: (U.S. Government agency)
- (U. S. Government agency's address)
- 1. We hereby establish this irrevocable and transferable Letter of Credit in your favor for one or more drawings up to United States \$______. This Letter of Credit is payable at (issuing financial institution's and, if any, confirming financial institution's) office at (issuing financial institution's address and, if any, confirming financial institution's address) and expires with our close of business on ______, or any automatically extended expiration date.
- 2. We hereby undertake to honor your or the transferee's sight draft(s) drawn on the issuing or, if any, the confirming financial institution, for all or any part of this credit if presented with this Letter of Credit and confirmation, if any, at the office specified in paragraph 1 of this Letter of Credit on or before the expiration date or any automatically extended expiration date.
- 3. (This paragraph is omitted if used as a bid guarantee, and subsequent paragraphs are renumbered.) It is a condition of this Letter of Credit that it is deemed to be automatically extended without amendment for one year from the expiration date hereof, or any future

expiration date, unless at least 60 days prior to any expiration date, we notify you or the transferee by registered mail, or other receipted means of delivery, that we elect not to consider this Letter of Credit renewed for any such additional period. At the time we notify you, we also agree to notify the account party (and confirming financial institution, if any) by the same means of delivery.

- 4. This Letter of Credit is transferable. Transfers and assignments of proceeds are to be effected without charge to either the beneficiary or the transferee/assignee of proceeds. Such transfer or assignment shall be only at the written direction of the Government (the beneficiary) in a form satisfactory to the issuing financial institution and the confirming financial institution, if any.
- 5. This Letter of Credit is subject to the Uniform Customs and Practice (UCP) for Documentary Credits, 1993 Revision, International Chamber of Commerce Publication No. 500, and to the extent not inconsistent therewith, to the laws of ______ (state of confirming financial institution, if any, otherwise state of issuing financial institution).
- 6. If this credit expires during an interruption of business of this financial institution as described in Article 17 of the UCP, the financial institution specifically agrees to effect payment if this credit is drawn against within 30 days after the resumption of our business.

Sincerely,
(Issuing financial institution)

(f) The following format shall be used by the financial institution to confirm an ILC:

- 1. We hereby confirm the above indicated Letter of Credit, the original of which is attached, issued by ______ (name of issuing financial institution) for drawings of up to United States dollars ______/U.S. $\$ ____ and expiring with our close of business on _____ (the expiration date), or any automatically extended expiration date.
- 2. Draft(s) drawn under the Letter of Credit and this Confirmation are payable at our office located at ______.
- 3. We hereby undertake to honor sight draft(s) drawn under and presented with the Letter of Credit and this Confirmation at our offices as specified herein.
- 4. (This paragraph is omitted if used as a bid guarantee, and subsequent paragraphs are renumbered.) It is a condition of this confirmation that it be deemed automatically extended without amendment for one year from the expiration date hereof, or any automatically extended expiration date, unless:
 - (a) At least 60 days prior to any such expiration date, we shall notify the Contracting Officer, or the transferee and the issuing financial institution, by registered mail or other receipted means of delivery, that we elect not to consider this confirmation extended for any such additional period; or
 - (b) The issuing financial institution shall have exercised its right to notify you or the transferee, the account party, and ourselves, of

its election not to extend the expiration date of the Letter of Credit.

- 5. This confirmation is subject to the Uniform Customs and Practice (UCP) for Documentary Credits, 1993 Revision, International Chamber of Commerce Publication No. 500, and to the extent not inconsistent therewith, to the laws of ______ (state of confirming financial institution).
- 6. If this confirmation expires during an interruption of business of this financial institution as described in Article 17 of the UCP, we specifically agree to effect payment if this credit is drawn against within 30 days after the resumption of our business.

Sincerely,

(Confirming financial institution)

(g) The following format shall be used by the Contracting Officer for a sight draft to draw on the Letter of Credit:

SIGHT DRAFT

| (City, State) | |
|---|-------|
| | , 19_ |
| (Name and address of financial institution) | |
| Pay to the order of | |
| (Beneficiary Agency) | |
| the sum of United States \$ | |
| This draft is drawn under | |
| Irrevocable Letter of Credit No | |
| By: | |
| (Beneficiary Agency) | |
| (End of clause) | |

- 52. 228-15 Performance and Payment Bonds--Construction (SEP 1996) (Reference 28. 102-3(a))
- 55 52. 228-7004 BONDS OR OTHER SECURITY (DEC 1991)
- (a) Offerors shall furnish a bid guarantee in the amount of 20% with their bids. The offeror receiving notice of award shall furnish--
 - (1) A performance bond in the penal amount of 100%; and
 - (2) Payment in full of any sum due the Government.
- (b) The Contractor shall furnish the performance bond to the Contracting Officer within 10 days days after receipt of the notice of award. The Contracting Officer will not issue the notice to proceed until receipt of an acceptable performance bond and payment of any sum due the Government.
- (c) Bonds supported by sureties whose names appear on the list contained in Treasury Department Circular 570 are acceptable. Performance bonds from individual sureties are acceptable if each person acting as a surety provides a SF 28, Affidavit of Individual Surety, and a pledge of assets acceptable to the Contracting Officer.

(End of provision)

56 52. 229-3 FEDERAL, STATE, AND LOCAL TAXES (JAN 1991)

- (a) "Contract date," as used in this clause, means the date set for bid opening or, if this is a negotiated contract or a modification, the effective date of this contract or modification.
- "All applicable Federal, State, and local taxes and duties," as used in this clause, means all taxes and duties, in effect on the contract date,

that the taxing authority is imposing and collecting on the transactions or property covered by this contract.

"After-imposed Federal tax," as used in this clause, means any new or increased Federal excise tax or duty, or tax that was exempted or excluded on the contract date but whose exemption was later revoked or reduced during the contract period, on the transactions or property covered by this contract that the Contractor is required to pay or bear as the result of legislative, judicial, or administrative action taking effect after the contract date. It does not include social security tax or other employment taxes.

"After-relieved Federal tax," as used in this clause, means any amount of Federal excise tax or duty, except social security or other employment taxes, that would otherwise have been payable on the transactions or property covered by this contract, but which the Contractor is not required to pay or bear, or for which the Contractor obtains a refund or drawback, as the result of legislative, judicial, or administrative action taking effect after the contract date.

- (b) The contract price includes all applicable Federal, State, and local taxes and duties.
- (c) The contract price shall be increased by the amount of any afterimposed Federal tax, provided the Contractor warrants in writing that no amount for such newly imposed Federal excise tax or duty or rate increase was included in the contract price, as a contingency reserve or otherwise.
- (d) The contract price shall be decreased by the amount of any afterrelieved Federal tax.
- (e) The contract price shall be decreased by the amount of any Federal excise tax or duty, except social security or other employment taxes, that the Contractor is required to pay or bear, or does not obtain a refund of, through the Contractor's fault, negligence, or failure to follow instructions of the Contracting Officer.
- (f) No adjustment shall be made in the contract price under this clause unless the amount of the adjustment exceeds \$250.
- (g) The Contractor shall promptly notify the Contracting Officer of all matters relating to any Federal excise tax or duty that reasonably may be expected to result in either an increase or decrease in the contract price and shall take appropriate action as the Contracting Officer directs.
- (h) The Government shall, without liability, furnish evidence appropriate to establish exemption from any Federal, State, or local tax when the Contractor requests such evidence and a reasonable basis exists to sustain the exemption.

(End of clause)

57 52. 232-5 PAYMENTS UNDER FIXED-PRICE CONSTRUCTION CONTRACTS (MAY 1997)

- (a) Payment of price. The Government shall pay the Contractor the contract price as provided in this contract.
- (b) Progress payments. The Government shall make progress payments monthly as the work proceeds, or at more frequent intervals as determined by the Contracting Officer, on estimates of work accomplished which meets the standards of quality established under the contract, as approved by the Contracting Officer.
 - (1) The Contractor's request for progress payments shall include the following substantiation:
 - (i) An itemization of the amounts requested, related to the various elements of work required by the contract covered by the payment

requested.

- (ii) A listing of the amount included for work performed by each subcontractor under the contract.
- (iii) A listing of the total amount of each subcontract under the contract.
- (iv) A listing of the amounts previously paid to each such subcontractor under the contract.
- (v) Additional supporting data in a form and detail required by the Contracting Officer.
- (2) In the preparation of estimates, the Contracting Officer may authorize material delivered on the site and preparatory work done to be taken into consideration. Material delivered to the Contractor at locations other than the site also may be taken into consideration if--
 - (i) Consideration is specifically authorized by this contract; and
 - (ii) The Contractor furnishes satisfactory evidence that it has acquired title to such material and that the material will be used to perform this contract.
- (c) Contractor certification. Along with each request for progress payments, the Contractor shall furnish the following certification, or payment shall not be made: (However, if the Contractor elects to delete paragraph (c)(4) from the certification, the certification is still acceptable.)
 - I hereby certify, to the best of my knowledge and belief, that--
 - (1) The amounts requested are only for performance in accordance with the specifications, terms, and conditions of the contract;
 - (2) Payments to subcontractors and suppliers have been made from previous payments received under the contract, and timely payments will be made from the proceeds of the payment covered by this certification, in accordance with subcontract agreements and the requirements of chapter 39 of Title 31. United States Code:
 - (3) This request for progress payments does not include any amounts which the prime contractor intends to withhold or retain from a subcontractor or supplier in accordance with the terms and conditions of the subcontract; and
 - (4) This certification is not to be construed as final acceptance of a subcontractor's performance.

| (Name) | |
|---------|--|
| (Title) | |
| (Data) | |

- (d) Refund of unearned amounts. If the Contractor, after making a certified request for progress payments, discovers that a portion or all of such request constitutes a payment for performance by the Contractor that fails to conform to the specifications, terms, and conditions of this contract (hereinafter referred to as the "unearned amount"), the Contractor shall--
 - (1) Notify the Contracting Officer of such performance deficiency; and
 - (2) Be obligated to pay the Government an amount (computed by the Contracting Officer in the manner provided in paragraph (j) of this clause) equal to interest on the unearned amount from the 8th day after the date of receipt of the unearned amount until--
 - (i) The date the Contractor notifies the Contracting Officer that the performance deficiency has been corrected; or
 - (ii) The date the Contractor reduces the amount of any subsequent certified request for progress payments by an amount equal to the

unearned amount.

- (e) Retainage. If the Contracting Officer finds that satisfactory progress was achieved during any period for which a progress payment is to be made, the Contracting Officer shall authorize payment to be made in full. However, if satisfactory progress has not been made, the Contracting Officer may retain a maximum of 10 percent of the amount of the payment until satisfactory progress is achieved. When the work is substantially complete, the Contracting Officer may retain from previously withheld funds and future progress payments that amount the Contracting Officer considers adequate for protection of the Government and shall release to the Contractor all the remaining withheld funds. Also, on completion and acceptance of each separate building, public work, or other division of the contract, for which the price is stated separately in the contract, payment shall be made for the completed work without retention of a percentage.
- (f) Title, liability, and reservation of rights. All material and work covered by progress payments made shall, at the time of payment, become the sole property of the Government, but this shall not be construed as--
 - (1) Relieving the Contractor from the sole responsibility for all material and work upon which payments have been made or the restoration of any damaged work; or
 - (2) Waiving the right of the Government to require the fulfillment of all of the terms of the contract.
- (g) Reimbursement for bond premiums. In making these progress payments, the Government shall, upon request, reimburse the Contractor for the amount of premiums paid for performance and payment bonds (including coinsurance and reinsurance agreements, when applicable) after the Contractor has furnished evidence of full payment to the surety. The retainage provisions in paragraph (e) of this clause shall not apply to that portion of progress payments attributable to bond premiums.
- (h) Final payment. The Government shall pay the amount due the Contractor under this contract after--
 - (1) Completion and acceptance of all work;
 - (2) Presentation of a properly executed voucher; and
 - (3) Presentation of release of all claims against the Government arising by virtue of this contract, other than claims, in stated amounts, that the Contractor has specifically excepted from the operation of the release. A release may also be required of the assignee if the Contractor's claim to amounts payable under this contract has been assigned under the Assignment of Claims Act of 1940 (31 U.S.C. 3727 and 41 U.S.C. 15).
- (i) Limitation because of undefinitized work. Notwithstanding any provision of this contract, progress payments shall not exceed 80 percent on work accomplished on undefinitized contract actions. A "contract action" is any action resulting in a contract, as defined in FAR Subpart 2.1, including contract modifications for additional supplies or services, but not including contract modifications that are within the scope and under the terms of the contract, such as contract modifications issued pursuant to the Changes clause, or funding and other administrative changes.
- (j) Interest computation on unearned amounts. In accordance with 31 U.S.C. 3903(c)(1), the amount payable under subparagraph (d)(2) of this clause shall be--
 - (1) Computed at the rate of average bond equivalent rates of 91-day Treasury bills auctioned at the most recent auction of such bills prior to the date the Contractor receives the unearned amount; and
 - (2) Deducted from the next available payment to the Contractor. (End of clause)

- 58 52. 232-14 NOTICE OF AVAILABILITY OF PROGRESS PAYMENTS EXCLUSIVELY FOR SMALL BUSINESS CONCERNS (APR 1984) (Reference 32. 502-3(b))
- 59 52. 232-17 INTEREST (JUN 1996)
- (a) Except as otherwise provided in this contract under a Price Reduction for Defective Cost or Pricing Data clause or a Cost Accounting Standards clause, all amounts that become payable by the Contractor to the Government under this contract (net of any applicable tax credit under the Internal Revenue Code (26 U.S.C. 1481)) shall bear simple interest from the date due until paid unless paid within 30 days of becoming due. The interest rate shall be the interest rate established by the Secretary of the Treasury as provided in Section 12 of the Contract Disputes Act of 1978 (Public Law 95-563), which is applicable to the period in which the amount becomes due, as provided in paragraph (b) of this clause, and then at the rate applicable for each six-month period as fixed by the Secretary until the amount is paid.
 - (b) Amounts shall be due at the earliest of the following dates:
 - (1) The date fixed under this contract.
 - (2) The date of the first written demand for payment consistent with this contract, including any demand resulting from a default termination.
 - (3) The date the Government transmits to the Contractor a proposed supplemental agreement to confirm completed negotiations establishing the amount of debt.
 - (4) If this contract provides for revision of prices, the date of written notice to the Contractor stating the amount of refund payable in connection with a pricing proposal or a negotiated pricing agreement not confirmed by contract modification.
- (c) The interest charge made under this clause may be reduced under the procedures prescribed in 32.614-2 of the Federal Acquisition Regulation in effect on the date of this contract.

(End of clause)

60 52. 232-18 AVAILABILITY OF FUNDS (APR 1984)

Funds are not presently available for this contract. The Government's obligation under this contract is contingent upon the availability of appropriated funds from which payment for contract purposes can be made. No legal liability on the part of the Government for any payment may arise until funds are made available to the Contracting Officer for this contract and until the Contractor receives notice of such availability, to be confirmed in writing by the Contracting Officer.

(End of clause) (SS 7-104.91(a) 1962 SEP)

61 52. 232-23 ASSIGNMENT OF CLAIMS (JAN 1986)

- (a) The Contractor, under the Assignment of Claims Act, as amended, 31 U.S.C. 3727, 41 U.S.C. 15 (hereafter referred to as "the Act"), may assign its rights to be paid amounts due or to become due as a result of the performance of this contract to a bank, trust company, or other financing institution, including any Federal lending agency. The assignment under such an assignment may thereafter further assign or reassign its right under the original assignment to any type of financing institution described in the preceding sentence.
 - (b) Any assignment or reassignment authorized under the Act and this

clause shall cover all unpaid amounts payable under this contract, and shall not be made to more than one party, except that an assignment or reassignment may be made to one party as agent or trustee for two or more parties participating in the financing of this contract.

(c) The Contractor shall not furnish or disclose to any assignee under this contract any classified document (including this contract) or information related to work under this contract until the Contracting Officer authorizes such action in writing.

(End of clause)

- 62 52. 232-24 PROHIBITION OF ASSIGNMENT OF CLAIMS (JAN 1986) (Reference 32. 806(b))
- 63 52. 232-27 PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (JUN 1997)

Notwithstanding any other payment terms in this contract, the Government will make invoice payments and contract financing payments under the terms and conditions specified in this clause. Payment shall be considered as being made on the day a check is dated or the date of an electronic funds transfer. Definitions of pertinent terms are set forth in section 32.902 of the Federal Acquisition Regulation. All days referred to in this clause are calendar days, unless otherwise specified. (However, see subparagraph (a) (3) concerning payments due on Saturdays, Sundays, and legal holidays.)

(a) Invoice payments--

- (1) Types of invoice payments. For purposes of this clause, there are several types of invoice payments that may occur under this contract, as follows:
 - (i) Progress payments, if provided for elsewhere in this contract, based on Contracting Officer approval of the estimated amount and value of work or services performed, including payments for reaching milestones in any project:
 - (A) The due date for making such payments shall be 14 days after receipt of the payment request by the designated billing office. If the designated billing office fails to annotate the payment request with the actual date of receipt at the time of receipt, the payment due date shall be the 14th day after the date of the Contractor's payment request, provided a proper payment request is received and there is no disagreement over quantity, quality, or Contractor compliance with contract requirements.
 - (B) The due date for payment of any amounts retained by the Contracting Officer in accordance with the clause at 52.232-5, Payments Under Fixed-Price Construction Contracts, shall be as specified in the contract or, if not specified, 30 days after approval for release to the Contractor by the Contracting Officer.
 - (ii) Final payments based on completion and acceptance of all work and presentation of release of all claims against the Government arising by virtue of the contract, and payments for partial deliveries that have been accepted by the Government (e.g., each separate building, public work, or other division of the contract for which the price is stated separately in the contract):
 - (A) The due date for making such payments shall be either the 30th day after receipt by the designated billing office of a proper invoice from the Contractor, or the 30th day after Government acceptance of the work or services completed by the Contractor, whichever is later. If the designated billing office fails to annotate the invoice with the date of actual receipt at the time of receipt, the invoice payment due date shall be the 30th day after the

date of the Contractor's invoice, provided a proper invoice is received and there is no disagreement over quantity, quality, or Contractor compliance with contract requirements.

- (B) On a final invoice where the payment amount is subject to contract settlement actions (e.g., release of claims), acceptance shall be deemed to have occurred on the effective date of the contract settlement.
- (2) Contractor's invoice. The Contractor shall prepare and submit invoices to the designated billing office specified in the contract. A proper invoice must include the items listed in paragraphs (a)(2)(i) through (a)(2)(ix) of this clause. If the invoice does not comply with these requirements, it shall be returned within 7 days after the date the designated billing office received the invoice, with a statement of the reasons why it is not a proper invoice. Untimely notification will be taken into account in computing any interest penalty owed the Contractor in the manner described in subparagraph (a)(4) of this clause.
 - (i) Name and address of the Contractor.
 - (ii) Invoice date. (The Contractor is encouraged to date invoices as close as possible to the date of mailing or transmission.)
 - (iii) Contract number or other authorization for work or services performed (including order number and contract line item number).
 - (iv) Description of work or services performed.
 - (v) Delivery and payment terms (e.g., prompt payment discount terms).
 - (vi) Name and address of Contractor official to whom payment is to be sent (must be the same as that in the contract or in a proper notice of assignment).
 - (vii) Name (where practicable), title, phone number, and mailing address of person to be notified in the event of a defective invoice.
 - (viii) For payments described in paragraph (a)(1)(i) of this clause, substantiation of the amounts requested and certification in accordance with the requirements of the clause at 52.232-5, Payments Under Fixed-Price Construction Contracts.
 - (ix) Any other information or documentation required by the contract.
 - (x) While not required, the Contractor is strongly encouraged to assign an identification number to each invoice.
- (3) Interest penalty. An interest penalty shall be paid automatically by the designated payment office, without request from the Contractor, if payment is not made by the due date and the conditions listed in paragraphs (a)(3)(i) through (a)(3)(iii) of this clause are met, if applicable. However, when the due date falls on a Saturday, Sunday, or legal holiday when Federal Government offices are closed and Government business is not expected to be conducted, payment may be made on the following business day without incurring a late payment interest penalty.
 - (i) A proper invoice was received by the designated billing office.
 - (ii) A receiving report or other Government documentation authorizing payment was processed and there was no disagreement over quantity, quality, Contractor compliance with any contract term or condition, or requested progress payment amount.
 - (iii) In the case of a final invoice for any balance of funds due the Contractor for work or services performed, the amount was not subject to further contract settlement actions between the Government and the Contractor.
- (4) Computing penalty amount. The interest penalty shall be at the rate established by the Secretary of the Treasury under section 12 of the Contract Disputes Act of 1978 (41 U.S.C. 611) that is in effect on the day after the due date, except where the interest penalty is prescribed by other governmental authority (e.g., tariffs). This rate is referred

to as the "Renegotiation Board Interest Rate," and it is published in the Federal Register semiannually on or about January 1 and July 1. The interest penalty shall accrue daily on the invoice principal payment amount approved by the Government until the payment date of such approved principal amount; and will be compounded in 30-day increments inclusive from the first day after the due date through the payment date. interest accrued at the end of any 30-day period will be added to the approved invoice principal payment amount and will be subject to interest penalties if not paid in the succeeding 30-day period. If the designated billing office failed to notify the Contractor of a defective invoice within the periods prescribed in subparagraph (a)(2) of this clause, the due date on the corrected invoice will be adjusted by subtracting from such date the number of days taken beyond the prescribed notification of defects period. Any interest penalty owed the Contractor will be based on this adjusted due date. Adjustments will be made by the designated payment office for errors in calculating interest penalties.

- (i) For the sole purpose of computing an interest penalty that might be due the Contractor for payments described in paragraph (a)(1)(ii) of this clause, Government acceptance or approval shall be deemed to have occurred constructively on the 7th day after the Contractor has completed the work or services in accordance with the terms and conditions of the contract. In the event that actual acceptance or approval occurs within the constructive acceptance or approval period, the determination of an interest penalty shall be based on the actual date of acceptance or approval. Constructive acceptance or constructive approval requirements do not apply if there is a disagreement over quantity, quality, or Contractor compliance with a contract provision. These requirements also do not compel Government officials to accept work or services, approve Contractor estimates, perform contract administration functions, or make payment prior to fulfilling their responsibilities.
- (ii) The following periods of time will not be included in the determination of an interest penalty:
 - (A) The period taken to notify the Contractor of defects in invoices submitted to the Government, but this may not exceed 7 days.
 - (B) The period between the defects notice and resubmission of the corrected invoice by the Contractor.
 - (C) For incorrect electronic funds transfer (EFT) information, in accordance with the EFT clause of this contract.
- (iii) Interest penalties will not continue to accrue after the filing of a claim for such penalties under the clause at 52.233-1, Disputes, or for more than 1 year. Interest penalties of less than \$1 need not be paid.
- (iv) Interest penalties are not required on payment delays due to disagreement between the Government and the Contractor over the payment amount or other issues involving contract compliance, or on amounts temporarily withheld or retained in accordance with the terms of the contract. Claims involving disputes, and any interest that may be payable, will be resolved in accordance with the clause at 52.233-1, Disputes.
- (5) Prompt payment discounts. An interest penalty also shall be paid automatically by the designated payment office, without request from the Contractor, if a discount for prompt payment is taken improperly. The interest penalty will be calculated on the amount of discount taken for the period beginning with the first day after the end of the discount period through the date when the Contractor is paid.
 - (6) Additional interest penalty.

- (i) A penalty amount, calculated in accordance with subdivision (a)(6)(iii) of this clause, shall be paid in addition to the interest penalty amount if the Contractor--
 - (A) Is owed an interest penalty of \$1 or more;
 - (B) Is not paid the interest penalty within 10 days after the date the invoice amount is paid; and
 - (C) Makes a written demand to the designated payment office for additional penalty payment, in accordance with subdivision (a)(6)(ii) of this clause, postmarked not later than 40 days after the date the invoice amount is paid.
- (ii) (A) Contractors shall support written demands for additional penalty payments with the following data. No additional data shall be required. Contractors shall--
 - (1) Specifically assert that late payment interest is due under a specific invoice, and request payment of all overdue late payment interest penalty and such additional penalty as may be required;
 - (2) Attach a copy of the invoice on which the unpaid late payment interest was due; and
 - (3) State that payment of the principal has been received, including the date of receipt.
 - (B) Demands must be postmarked on or before the 40th day after payment was made, except that--
 - (1) If the postmark is illegible or nonexistent, the demand must have been received and annotated with the date of receipt by the designated payment office on or before the 40th day after payment was made; or
 - (2) If the postmark is illegible or nonexistent and the designated payment office fails to make the required annotation, the demand's validity will be determined by the date the Contractor has placed on the demand; provided such date is no later than the 40th day after payment was made.
- (iii)(A) The additional penalty shall be equal to 100 percent of any original late payment interest penalty, except--
 - (1) The additional penalty shall not exceed \$5,000;
 - (2) The additional penalty shall never be less than \$25; and
 - (3) No additional penalty is owed if the amount of the underlying interest penalty is less than \$1.
 - (B) If the interest penalty ceases to accrue in accordance with the limits stated in subdivision (a)(4)(iii) of this clause, the amount of the additional penalty shall be calculated on the amount of interest penalty that would have accrued in the absence of these limits, subject to the overall limits on the additional penalty specified in subdivision (a)(6)(iii)(A) of this clause.
 - (C) For determining the maximum and minimum additional penalties, the test shall be the interest penalty due on each separate payment made for each separate contract. The maximum and minimum additional penalty shall not be based upon individual invoices unless the invoices are paid separately. Where payments are consolidated for disbursing purposes, the maximum and minimum additional penalty determination shall be made separately for each contract therein.
 - (D) The additional penalty does not apply to payments regulated by other Government regulations (e.g., payments under utility contracts subject to tariffs and regulation).
- (b) Contract financing payments--
- (1) Due dates for recurring financing payments. If this contract provides for contract financing, requests for payment shall be submitted to the designated billing office as specified in this contract or as

directed by the Contracting Officer. Contract financing payments shall be made on the ______ day after receipt of a proper contract financing request by the designated billing office. In the event that an audit or other review of a specific financing request is required to ensure compliance with the terms and conditions of the contract, the designated payment office is not compelled to make payment by the due date specified.

- (2) Due dates for other contract financing. For advance payments, loans, or other arrangements that do not involve recurring submissions of contract financing requests, payment shall be made in accordance with the corresponding contract terms or as directed by the Contracting Officer.
- (3) Interest penalty not applicable. Contract financing payments shall not be assessed an interest penalty for payment delays.
- (c) Subcontract clause requirements. The Contractor shall include in each subcontract for property or services (including a material supplier) for the purpose of performing this contract the following:
 - (1) Prompt payment for subcontractors. A payment clause that obligates the Contractor to pay the subcontractor for satisfactory performance under its subcontract not later than 7 days from receipt of payment out of such amounts as are paid to the Contractor under this contract.
 - (2) Interest for subcontractors. An interest penalty clause that obligates the Contractor to pay to the subcontractor an interest penalty for each payment not made in accordance with the payment clause--
 - (i) For the period beginning on the day after the required payment date and ending on the date on which payment of the amount due is made; and
 - (ii) Computed at the rate of interest established by the Secretary of the Treasury, and published in the Federal Register, for interest payments under section 12 of the Contract Disputes Act of 1978 (41 U.S.C. 611) in effect at the time the Contractor accrues the obligation to pay an interest penalty.
 - (3) Subcontractor clause flowdown. A clause requiring each subcontractor to include a payment clause and an interest penalty clause conforming to the standards set forth in subparagraphs (c) (1) and (c) (2) of this clause in each of its subcontracts, and to require each of its subcontractors to include such clauses in their subcontracts with each lower-tier subcontractor or supplier.
- (d) Subcontract clause interpretation. The clauses required by paragraph (c) of this clause shall not be construed to impair the right of the Contractor or a subcontractor at any tier to negotiate, and to include in their subcontract, provisions that--
 - (1) Retainage permitted. Permit the Contractor or a subcontractor to retain (without cause) a specified percentage of each progress payment otherwise due to a subcontractor for satisfactory performance under the subcontract without incurring any obligation to pay a late payment interest penalty, in accordance with terms and conditions agreed to by the parties to the subcontract, giving such recognition as the parties deem appropriate to the ability of a subcontractor to furnish a performance bond and a payment bond;
 - (2) Withholding permitted. Permit the Contractor or subcontractor to make a determination that part or all of the subcontractor's request for payment may be withheld in accordance with the subcontract agreement; and
 - (3) Withholding requirements. Permit such withholding without incurring any obligation to pay a late payment penalty if--
 - (i) A notice conforming to the standards of paragraph (g) of this clause previously has been furnished to the subcontractor; and
 - (ii) A copy of any notice issued by a Contractor pursuant to

subdivision (d)(3)(i) of this clause has been furnished to the Contracting Officer.

- (e) Subcontractor withholding procedures. If a Contractor, after making a request for payment to the Government but before making a payment to a subcontractor for the subcontractor's performance covered by the payment request, discovers that all or a portion of the payment otherwise due such subcontractor is subject to withholding from the subcontractor in accordance with the subcontract agreement, then the Contractor shall--
 - (1) Subcontractor notice. Furnish to the subcontractor a notice conforming to the standards of paragraph (g) of this clause as soon as practicable upon ascertaining the cause giving rise to a withholding, but prior to the due date for subcontractor payment;
 - (2) Contracting Officer notice. Furnish to the Contracting Officer, as soon as practicable, a copy of the notice furnished to the subcontractor pursuant to subparagraph (e)(1) of this clause;
 - (3) Subcontractor progress payment reduction. Reduce the subcontractor's progress payment by an amount not to exceed the amount specified in the notice of withholding furnished under subparagraph (e) (1) of this clause;
 - (4) Subsequent subcontractor payment. Pay the subcontractor as soon as practicable after the correction of the identified subcontract performance deficiency, and--
 - (i) Make such payment within--
 - (A) Seven days after correction of the identified subcontract performance deficiency (unless the funds therefor must be recovered from the Government because of a reduction under paragraph (e)(5)(i)) of this clause; or
 - (B) Seven days after the Contractor recovers such funds from the Government; or
 - (ii) Incur an obligation to pay a late payment interest penalty computed at the rate of interest established by the Secretary of the Treasury, and published in the Federal Register, for interest payments under section 12 of the Contracts Disputes Act of 1978 (41 U.S.C. 611) in effect at the time the Contractor accrues the obligation to pay an interest penalty;
 - (5) Notice to Contracting Officer. Notify the Contracting Officer upon--
 - (i) Reduction of the amount of any subsequent certified application for payment; or
 - (ii) Payment to the subcontractor of any withheld amounts of a progress payment, specifying--
 - (A) The amounts withheld under subparagraph (e)(1) of this clause; and
 - (B) The dates that such withholding began and ended; and
 - (6) Interest to Government. Be obligated to pay to the Government an amount equal to interest on the withheld payments (computed in the manner provided in 31 U.S.C. 3903(c)(1)), from the 8th day after receipt of the withheld amounts from the Government until--
 - (i) The day the identified subcontractor performance deficiency is corrected; or
 - (ii) The date that any subsequent payment is reduced under subdivision (e)(5)(i) of this clause.
 - (f) Third-party deficiency reports--
 - (1) Withholding from subcontractor. If a Contractor, after making payment to a first-tier subcontractor, receives from a supplier or subcontractor of the first-tier subcontractor (hereafter referred to as a "second-tier subcontractor") a written notice in accordance with section

2 of the Act of August 24, 1935 (40 U.S.C. 270b, Miller Act), asserting a deficiency in such first-tier subcontractor's performance under the contract for which the Contractor may be ultimately liable, and the Contractor determines that all or a portion of future payments otherwise due such first-tier subcontractor is subject to withholding in accordance with the subcontract agreement, the Contractor may, without incurring an obligation to pay an interest penalty under subparagraph (e)(6) of this clause-

- (i) Furnish to the first-tier subcontractor a notice conforming to the standards of paragraph (g) of this clause as soon as practicable upon making such determination; and
- (ii) Withhold from the first-tier subcontractor's next available progress payment or payments an amount not to exceed the amount specified in the notice of withholding furnished under paragraph (f)(1)(i) of this clause.
- (2) Subsequent payment or interest charge. As soon as practicable, but not later than 7 days after receipt of satisfactory written notification that the identified subcontract performance deficiency has been corrected, the Contractor shall--
 - (i) Pay the amount withheld under paragraph (f)(1)(ii) of this clause to such first-tier subcontractor; or
 - (ii) Incur an obligation to pay a late payment interest penalty to such first-tier subcontractor computed at the rate of interest established by the Secretary of the Treasury, and published in the Federal Register, for interest payments under section 12 of the Contracts Disputes Act of 1978 (41 U.S.C. 611) in effect at the time the Contractor accrues the obligation to pay an interest penalty.
- (g) Written notice of subcontractor withholding. A written notice of any withholding shall be issued to a subcontractor (with a copy to the Contracting Officer of any such notice issued by the Contractor), specifying--
 - (1) The amount to be withheld;
 - (2) The specific causes for the withholding under the terms of the subcontract; and
 - (3) The remedial actions to be taken by the subcontractor in order to receive payment of the amounts withheld.
- (h) Subcontractor payment entitlement. The Contractor may not request payment from the Government of any amount withheld or retained in accordance with paragraph (d) of this clause until such time as the Contractor has determined and certified to the Contracting Officer that the subcontractor is entitled to the payment of such amount.
- (i) Prime-subcontractor disputes. A dispute between the Contractor and subcontractor relating to the amount or entitlement of a subcontractor to a payment or a late payment interest penalty under a clause included in the subcontract pursuant to paragraph (c) of this clause does not constitute a dispute to which the United States is a party. The United States may not be interpleaded in any judicial or administrative proceeding involving such a dispute.
- (j) Preservation of prime-subcontractor rights. Except as provided in paragraph (i) of this clause, this clause shall not limit or impair any contractual, administrative, or judicial remedies otherwise available to the Contractor or a subcontractor in the event of a dispute involving late payment or nonpayment by the Contractor or deficient subcontract performance or nonperformance by a subcontractor.
- (k) Non-recourse for prime contractor interest penalty. The Contractor's obligation to pay an interest penalty to a subcontractor pursuant to the clauses included in a subcontract under paragraph (c) of this clause shall

not be construed to be an obligation of the United States for such interest penalty. A cost-reimbursement claim may not include any amount for reimbursement of such interest penalty.

(End of clause)

64 52. 232-33 PAYMENT BY ELECTRONIC FUNDS TRANSFER--CENTRAL CONTRACTOR REGISTRATION (MAY 1999)

- (a) Method of payment. (1) All payments by the Government under this contract shall be made by electronic funds transfer (EFT), except as provided in paragraph (a)(2) of this clause. As used in this clause, the term "EFT" refers to the funds transfer and may also include the payment information transfer.
 - (2) In the event the Government is unable to release one or more payments by EFT, the Contractor agrees to either--
 - (i) Accept payment by check or some other mutually agreeable method of payment; or
 - (ii) Request the Government to extend the payment due date until such time as the Government can make payment by EFT (but see paragraph (d) of this clause).
- (b) Contractor's EFT information. The Government shall make payment to the Contractor using the EFT information contained in the Central Contractor Registration (CCR) database. In the event that the EFT information changes, the Contractor shall be responsible for providing the updated information to the CCR database.
- (c) Mechanisms for EFT payment. The Government may make payment by EFT through either the Automated Clearing House (ACH) network, subject to the rules of the National Automated Clearing House Association, or the Fedwire Transfer System. The rules governing Federal payments through the ACH are contained in 31 CFR part 210.
- (d) Suspension of payment. If the Contractor's EFT information in the CCR database is incorrect, then the Government need not make payment to the Contractor under this contract until correct EFT information is entered into the CCR database; and any invoice or contract financing request shall be deemed not to be a proper invoice for the purpose of prompt payment under this contract. The prompt payment terms of the contract regarding notice of an improper invoice and delays in accrual of interest penalties apply.
- (e) Contractor EFT arrangements. If the Contractor has identified multiple payment receiving points (i.e., more than one remittance address and/or EFT information set) in the CCR database, and the Contractor has not notified the Government of the payment receiving point applicable to this contract, the Government shall make payment to the first payment receiving point (EFT information set or remittance address as applicable) listed in the CCR database.
- (f) Liability for uncompleted or erroneous transfers. (1) If an uncompleted or erroneous transfer occurs because the Government used the Contractor's EFT information incorrectly, the Government remains responsible for--
 - (i) Making a correct payment;
 - (ii) Paying any prompt payment penalty due; and
 - (iii) Recovering any erroneously directed funds.
 - (2) If an uncompleted or erroneous transfer occurs because the Contractor's EFT information was incorrect, or was revised within 30 days of Government release of the EFT payment transaction instruction to the Federal Reserve System, and--

- (i) If the funds are no longer under the control of the payment office, the Government is deemed to have made payment and the Contractor is responsible for recovery of any erroneously directed funds; or
- (ii) If the funds remain under the control of the payment office, the Government shall not make payment, and the provisions of paragraph (d) of this clause shall apply.
- (g) EFT and prompt payment. A payment shall be deemed to have been made in a timely manner in accordance with the prompt payment terms of this contract if, in the EFT payment transaction instruction released to the Federal Reserve System, the date specified for settlement of the payment is on or before the prompt payment due date, provided the specified payment date is a valid date under the rules of the Federal Reserve System.
- (h) EFT and assignment of claims. If the Contractor assigns the proceeds of this contract as provided for in the assignment of claims terms of this contract, the Contractor shall require as a condition of any such assignment, that the assignee shall register in the CCR database and shall be paid by EFT in accordance with the terms of this clause. In all respects, the requirements of this clause shall apply to the assignee as if it were the Contractor. EFT information that shows the ultimate recipient of the transfer to be other than the Contractor, in the absence of a proper assignment of claims acceptable to the Government, is incorrect EFT information within the meaning of paragraph (d) of this clause.
- (i) Liability for change of EFT information by financial agent. The Government is not liable for errors resulting from changes to EFT information made by the Contractor's financial agent.
- (j) Payment information. The payment or disbursing office shall forward to the Contractor available payment information that is suitable for transmission as of the date of release of the EFT instruction to the Federal Reserve System. The Government may request the Contractor to designate a desired format and method(s) for delivery of payment information from a list of formats and methods the payment office is capable of executing. However, the Government does not guarantee that any particular format or method of delivery is available at any particular payment office and retains the latitude to use the format and delivery method most convenient to the Government. If the Government makes payment by check in accordance with paragraph (a) of this clause, the Government shall mail the payment information to the remittance address contained in the CCR database.

(End of Clause)

65 52. 232-34 PAYMENT BY ELECTRONIC FUNDS TRANSFER--OTHER THAN CENTRAL CONTRACTOR REGISTRATION (MAY 1999)

- (a) Method of payment. (1) All payments by the Government under this contract shall be made by electronic funds transfer (EFT) except as provided in paragraph (a)(2) of this clause. As used in this clause, the term "EFT" refers to the funds transfer and may also include the payment information transfer.
 - (2) In the event the Government is unable to release one or more payments by EFT, the Contractor agrees to either--
 - (i) Accept payment by check or some other mutually agreeable method of payment; or

- (ii) Request the Government to extend payment due dates until such time as the Government makes payment by EFT (but see paragraph (d) of this clause).
- (b) Mandatory submission of Contractor's EFT information. (1) The Contractor is required to provide the Government with the information required to make payment by EFT (see paragraph (j) of this clause). The Contractor shall provide this information directly to the office designated in this contract to receive that information (hereafter: "designated office") by ______. If not otherwise specified in this contract, the payment office is the designated office for receipt of the Contractor's EFT information. If more than one designated office is named for the contract, the Contractor shall provide a separate notice to each office. In the event that the EFT information changes, the Contractor shall be responsible for providing the updated information to the designated office(s).
 - (2) If the Contractor provides EFT information applicable to multiple contracts, the Contractor shall specifically state the applicability of this EFT information in terms acceptable to the designated office. However, EFT information supplied to a designated office shall be applicable only to contracts that identify that designated office as the office to receive EFT information for that contract.
- (c) Mechanisms for EFT payment. The Government may make payment by EFT through either the Automated Clearing House (ACH) network, subject to the rules of the National Automated Clearing House Association, or the Fedwire Transfer System. The rules governing Federal payments through the ACH are contained in 31 CFR part 210.
- (d) Suspension of payment. (1) The Government is not required to make any payment under this contract until after receipt, by the designated office, of the correct EFT payment information from the Contractor. Until receipt of the correct EFT information, any invoice or contract financing request shall be deemed not to be a proper invoice for the purpose of prompt payment under this contract. The prompt payment terms of the contract regarding notice of an improper invoice and delays in accrual of interest penalties apply.
 - (2) If the EFT information changes after submission of correct EFT information, the Government shall begin using the changed EFT information no later than 30 days after its receipt by the designated office to the extent payment is made by EFT. However, the Contractor may request that no further payments be made until the updated EFT information is implemented by the payment office. If such suspension would result in a late payment under the prompt payment terms of this contract, the Contractor's request for suspension shall extend the due date for payment by the number of days of the suspension.
- (e) Liability for uncompleted or erroneous transfers. (1) If an uncompleted or erroneous transfer occurs because the Government used the Contractor's EFT information incorrectly, the Government remains responsible for--
 - (i) Making a correct payment;
 - (ii) Paying any prompt payment penalty due; and
 - (iii) Recovering any erroneously directed funds.
 - (2) If an uncompleted or erroneous transfer occurs because the Contractor's EFT information was incorrect, or was revised within 30 days of Government release of the EFT payment transaction instruction to the Federal Reserve System, and--

- (i) If the funds are no longer under the control of the payment office, the Government is deemed to have made payment and the Contractor is responsible for recovery of any erroneously directed funds; or
- (ii) If the funds remain under the control of the payment office, the Government shall not make payment and the provisions of paragraph (d) shall apply.
- (f) EFT and prompt payment. A payment shall be deemed to have been made in a timely manner in accordance with the prompt payment terms of this contract if, in the EFT payment transaction instruction released to the Federal Reserve System, the date specified for settlement of the payment is on or before the prompt payment due date, provided the specified payment date is a valid date under the rules of the Federal Reserve System.
- (g) EFT and assignment of claims. If the Contractor assigns the proceeds of this contract as provided for in the assignment of claims terms of this contract, the Contractor shall require as a condition of any such assignment, that the assignee shall provide the EFT information required by paragraph (j) of this clause to the designated office, and shall be paid by EFT in accordance with the terms of this clause. In all respects, the requirements of this clause shall apply to the assignee as if it were the Contractor. EFT information that shows the ultimate recipient of the transfer to be other than the Contractor, in the absence of a proper assignment of claims acceptable to the Government, is incorrect EFT information within the meaning of paragraph (d) of this clause.
- (h) Liability for change of EFT information by financial agent. The Government is not liable for errors resulting from changes to EFT information provided by the Contractor's financial agent.
- (i) Payment information. The payment or disbursing office shall forward to the Contractor available payment information that is suitable for transmission as of the date of release of the EFT instruction to the Federal Reserve System. The Government may request the Contractor to designate a desired format and method(s) for delivery of payment information from a list of formats and methods the payment office is capable of executing. However, the Government does not guarantee that any particular format or method of delivery is available at any particular payment office and retains the latitude to use the format and delivery method most convenient to the Government. If the Government makes payment by check in accordance with paragraph (a) of this clause, the Government shall mail the payment information to the remittance address in the contract.
- (j) EFT information. The Contractor shall provide the following information to the designated office. The Contractor may supply this data for this or multiple contracts (see paragraph (b) of this clause). The Contractor shall designate a single financial agent per contract capable of receiving and processing the EFT information using the EFT methods described in paragraph (c) of this clause.
 - (1) The contract number (or other procurement identification number).
 - (2) The Contractor's name and remittance address, as stated in the contract(s).
 - (3) The signature (manual or electronic, as appropriate), title, and telephone number of the Contractor official authorized to provide this information.
 - (4) The name, address, and 9-digit Routing Transit Number of the

Contractor's financial agent.

- (5) The Contractor's account number and the type of account (checking, saving, or lockbox).
- (6) If applicable, the Fedwire Transfer System telegraphic abbreviation of the Contractor's financial agent.
- (7) If applicable, the Contractor shall also provide the name, address, telegraphic abbreviation, and 9-digit Routing Transit Number of the correspondent financial institution receiving the wire transfer payment if the Contractor's financial agent is not directly on-line to the Fedwire Transfer System; and, therefore, not the receiver of the wire transfer payment.

(End of clause)

66 52. 232-7007 LIMITATION OF GOVERNMENT'S OBLIGATION (AUG 1993)

- (a) Contract line item(s) _____ through ____ are incrementally funded. For these item(s), the sum of \S ____ of the total price is presently available for payment and allotted to this contract. An allotment schedule is set forth in paragraph (i) of this clause.
- (b) For item(s) identified in paragraph (a) of this clause, the Contractor agrees to perform up to the point at which the total amount payable by the Government, including reimbursement in the event of termination of those item(s) for the Government's convenience, approximates the total amount currently allotted to the contract. The Contractor will not be obligated to continue work on those item(s) beyond that point. The Government will not be obligated in any event to reimburse the Contractor in excess of the amount allotted to the contract for those item(s) regardless of anything to the contrary in the clause entitled "Termination for Convenience of the Government." As used in this clause, the total amount payable by the Government in the event of termination of applicable contract line item(s) for convenience includes costs, profit, and estimated termination settlement costs for those item(s).
- (c) Notwithstanding the dates specified in the allotment schedule in paragraph (i) of this clause, the Contractor will notify the Contracting Officer in writing at least ninety days prior to the date when, in the Contractor's best judgment, the work will reach the point at which the total amount payable by the Government, including any cost for termination for convenience, will approximate 85 percent of the total amount then allotted to the contract for performance of the applicable $% \left(1\right) =\left(1\right) \left(item(s). The notification will state (1) the estimated date when that point will be reached and (2) an estimate of additional funding, if any, needed to continue performance of applicable line items up to the next scheduled date for allotment of funds identified in paragraph (i) of this clause, or to a mutually agreed upon substitute date. The notification will also advise the Contracting Officer of the estimated amount of additional funds that will be required for the timely performance of the item(s) funded pursuant to this clause, for a subsequent period as may be specified in the allotment schedule in paragraph (i) of this clause or otherwise agreed to by the parties. If after such notification additional funds are not allotted by the date identified in the Contractor's notification, or by an agreed substitute date, the Contracting Officer will terminate any item(s) for which additional funds have not been allotted, pursuant to the clause of this contract entitled "Termination for Convenience of the Government."
 - (d) When additional funds are allotted for continued performance of the

contract line item(s) identified in paragraph (a) of this clause, the parties will agree as to the period of contract performance which will be covered by the funds. The provisions of paragraphs (b) through (d) of this clause will apply in like manner to the additional allotted funds and agreed substitute date, and the contract will be modified accordingly.

- (e) If, solely by reason of failure of the Government to allot additional funds, by the dates indicated below, in amounts sufficient for timely performance of the contract line item(s) identified in paragraph (a) of this clause, the Contractor incurs additional costs or is delayed in the performance of the work under this contract and if additional funds are allotted, an equitable adjustment will be made in the price or prices (including appropriate target, billing, and ceiling prices where applicable) of the item(s), or in the time of delivery, or both. Failure to agree to any such equitable adjustment hereunder will be a dispute concerning a question of fact within the meaning of the clause entitled "Disputes."
- (f) The Government may at any time prior to termination allot additional funds for the performance of the contract line item(s) identified in paragraph (a) of this clause.
- (g) The termination provisions of this clause do not limit the rights of the Government under the clause entitled "Default." The provisions of this clause are limited to the work and allotment of funds for the contract line item(s) set forth in paragraph (a) of this clause. This clause no longer applies once the contract is fully funded except with regard to the rights or obligations of the parties concerning equitable adjustments negotiated under paragraphs (d) or (e) of this clause.
- (h) Nothing in this clause affects the right of the Government to terminate this contract pursuant to the clause of this contract entitled "Termination for Convenience of the Government."
- (i) The parties contemplate that the Government will allot funds to this contract in accordance with the following schedule:

 DATE

 AMOUNT

(End of clause)

67 52. 232-7007 I LIMITATION OF GOVERNMENT'S OBLIGATION (AUG 1993) -- ALTERNATE I (AUG 1993)

(a) Contract line item ______ is incrementally funded. The sum of \$ _____ is presently available for payment and allotted to this contract. An allotment schedule is contained in paragraph (i) of this clause.

(b) For item(s) identified in paragraph (a) of this clause, the Contractor agrees to perform up to the point at which the total amount payable by the Government, including reimbursement in the event of termination of those item(s) for the Government's convenience, approximates the total amount currently allotted to the contract. The Contractor will not be obligated to continue work on those item(s) beyond that point. The Government will not be obligated in any event to reimburse the Contractor in excess of the amount allotted to the contract for those item(s) regardless of anything to the contrary in the clause entitled "Termination for Convenience of the Government." As used in this clause, the total amount payable by the Government in the event of termination of applicable contract line item(s) for convenience includes costs, profit, and estimated termination settlement costs for those item(s).

- (c) Notwithstanding the dates specified in the allotment schedule in paragraph (i) of this clause, the Contractor will notify the Contracting Officer in writing at least ninety days prior to the date when, in the Contractor's best judgment, the work will reach the point at which the total amount payable by the Government, including any cost for termination for convenience, will approximate 85 percent of the total amount then allotted to the contract for performance of the applicable The notification will state (1) the estimated date when that point will be reached and (2) an estimate of additional funding, if any, needed to continue performance of applicable line items up to the next scheduled date for allotment of funds identified in paragraph (i) of this clause, or to a mutually agreed upon substitute date. The notification will also advise the Contracting Officer of the estimated amount of additional funds that will be required for the timely performance of the item(s) funded pursuant to this clause, for a subsequent period as may be specified in the allotment schedule in paragraph (i) of this clause or otherwise agreed to by the parties. If after such notification additional funds are not allotted by the date identified in the Contractor's notification, or by an agreed substitute date, the Contracting Officer will terminate any item(s) for which additional funds have not been allotted, pursuant to the clause of this contract entitled "Termination for Convenience of the Government."
- (d) When additional funds are allotted for continued performance of the contract line item(s) identified in paragraph (a) of this clause, the parties will agree as to the period of contract performance which will be covered by the funds. The provisions of paragraphs (b) through (d) of this clause will apply in like manner to the additional allotted funds and agreed substitute date, and the contract will be modified accordingly.
- (e) If, solely by reason of failure of the Government to allot additional funds, by the dates indicated below, in amounts sufficient for timely performance of the contract line item(s) identified in paragraph (a) of this clause, the Contractor incurs additional costs or is delayed in the performance of the work under this contract and if additional funds are allotted, an equitable adjustment will be made in the price or prices (including appropriate target, billing, and ceiling prices where applicable) of the item(s), or in the time of delivery, or both. Failure to agree to any such equitable adjustment hereunder will be a dispute concerning a question of fact within the meaning of the clause entitled "Disputes."
- (f) The Government may at any time prior to termination allot additional funds for the performance of the contract line item(s) identified in paragraph (a) of this clause.
- (g) The termination provisions of this clause do not limit the rights of the Government under the clause entitled "Default." The provisions of this clause are limited to the work and allotment of funds for the contract line item(s) set forth in paragraph (a) of this clause. This clause no longer applies once the contract is fully funded except with regard to the rights or obligations of the parties concerning equitable adjustments negotiated under paragraphs (d) or (e) of this clause.
- (h) Nothing in this clause affects the right of the Government to terminate this contract pursuant to the clause of this contract entitled "Termination for Convenience of the Government."
- (i) The parties contemplate that the Government will allot funds to this contract in accordance with the following schedule:

| DATE | AMDUNT | |
|------|--------|-----------------|
| | | (End of clause) |

52. 233-1 I

- (a) This contract is subject to the Contract Disputes Act of 1978, as amended (41 U.S.C. 601-613).
- (b) Except as provided in the Act, all disputes arising under or relating to this contract shall be resolved under this clause.
- (c) "Claim," as used in this clause, means a written demand or written assertion by one of the contracting parties seeking, as a matter of right, the payment of money in a sum certain, the adjustment or interpretation of contract terms, or other relief arising under or relating to this contract. A claim arising under a contract, unlike a claim relating to that contract, is a claim that can be resolved under a contract clause that provides for the relief sought by the claimant. However, a written demand or written assertion by the Contractor seeking the payment of money exceeding \$100,000 is not a claim under the Act until certified as required by subparagraph (d)(2) of this clause. A voucher, invoice, or other routine request for payment that is not in dispute when submitted is not a claim under the Act. The submission may be converted to a claim under the Act, by complying with the submission and certification requirements of this clause, if it is disputed either as to liability or amount or is not acted upon in a reasonable time.
- (d)(1) A claim by the Contractor shall be made in writing and, unless otherwise stated in this contract, submitted within 6 years after accrual of the claim to the Contracting Officer for a written decision. A claim by the Government against the Contractor shall be subject to a written decision by the Contracting Officer.
 - (2)(i) Contractors shall provide the certification specified in subparagraph (d)(2)(iii) of this clause when submitting any claim-
 - (A) Exceeding \$100,000; or
 - (B) Regardless of the amount claimed, when using--
 - (1) Arbitration conducted pursuant to 5 U.S.C. 575-580; or
 - (2) Any other alternative means of dispute resolution (ADR) technique that the agency elects to handle in accordance with the Administrative Dispute Resolution Act (ADRA).
 - (ii) The certification requirement does not apply to issues in controversy that have not been submitted as all or part of a claim.
 - (iii) The certification shall state as follows:
 - "I certify that the claim is made in good faith; that the supporting data are accurate and complete to the best of my knowledge and belief; that the amount requested accurately reflects the contract adjustment for which the Contractor believes the Government is liable; and that I am duty authorized to certify the claim on behalf of the Contractor."
 - (3) The certification may be executed by any person duly authorized to bind the Contractor with respect to the claim.
- (e) For Contractor claims of \$100,000 or less, the Contracting Officer must, if requested in writing by the Contractor, render a decision within 60 days of the request. For Contractor-certified claims over \$100,000, the Contracting Officer must, within 60 days, decide the claim or notify the Contractor of the date by which the decision will be made.
- (f) The Contracting Officer's decision shall be final unless the Contractor appeals or files a suit as provided in the Act.
- (g) If the claim by the Contractor is submitted to the Contracting Officer or a claim by the Government is presented to the Contractor, the parties, by mutual consent, may agree to use ADR. If the Contractor refuses an offer for alternative disputes resolution, the Contractor shall inform the Contracting Officer, in writing, of the Contractor's specific reasons for rejecting the request. When using arbitration conducted

- pursuant to 5 U.S.C. 575-580, or when using any other ADR technique that the agency elects to handle in accordance with the ADRA, any claim, regardless of amount, shall be accompanied by the certification described in subparagraph (d)(2)(iii) of this clause, and executed in accordance with subparagraph (d)(3) of this clause.
- (h) The Government shall pay interest on the amount found due and unpaid from (1) the date that the Contracting Officer receives the claim (certified, if required); or (2) the date that payment otherwise would be due, if that date is later, until the date of payment. With regard to claims having defective certifications, as defined in (FAR) 48 CFR 33.201, interest shall be paid from the date that the Contracting Officer initially receives the claim. Simple interest on claims shall be paid at the rate, fixed by the Secretary of the Treasury as provided in the Act, which is applicable to the period during which the Contracting Officer receives the claim and then at the rate applicable for each 6-month period as fixed by the Treasury Secretary during the pendency of the claim.
- (i) The Contractor shall proceed diligently with performance of this contract, pending final resolution of any request for relief, claim, appeal, or action arising under or relating to the contract, and comply with any decision of the Contracting Officer.

(End of clause)

69 52. 233-3 PROTEST AFTER AWARD (AUG 1996)

- (a) Upon receipt of a notice of protest (as defined in FAR 33.101) or a determination that a protest is likely (see FAR 33.102(d)), the Contracting Officer may, by written order to the Contractor, direct the Contractor to stop performance of the work called for by this contract. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Upon receipt of the final decision in the protest, the Contracting Officer shall either--
 - (1) Cancel the stop-work order; or
 - (2) Terminate the work covered by the order as provided in the Default, or the Termination for Convenience of the Government, clause of this contract.
- (b) If a stop-work order issued under this clause is canceled either before or after a final decision in the protest, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule or contract price, or both, and the contract shall be modified, in writing, accordingly, if--
 - (1) The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this contract; and
 - (2) The Contractor asserts its right to an adjustment within 30 days after the end of the period of work stoppage; provided, that if the Contracting Officer decides the facts justify the action, the Contracting Officer may receive and act upon a proposal at any time before final payment under this contract.
- (c) If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of the Government, the Contracting Officer shall allow reasonable costs resulting from the stop-work order in arriving at the termination settlement.
 - (d) If a stop-work order is not canceled and the work covered by the

order is terminated for default, the Contracting Officer shall allow, by equitable adjustment or otherwise, reasonable costs resulting from the stop-work order.

- (e) The Government's rights to terminate this contract at any time are not affected by action taken under this clause.
- (f) If, as the result of the Contractor's intentional or negligent misstatement, misrepresentation, or miscertification, a protest related to this contract is sustained, and the Government pays costs, as provided in FAR 33.102(b)(2) or 33.104(h)(1), the Government may require the Contractor to reimburse the Government the amount of such costs. In addition to any other remedy available, and pursuant to the requirements of Subpart 32.6, the Government may collect this debt by offsetting the amount against any payment due the Contractor under any contract between the Contractor and the Government.

(End of clause)

70 52. 236-1 PERFORMANCE OF WORK BY THE CONTRACTOR (APR 1984)

The Contractor shall perform on the site, and with its own organization, work equivalent to at least ______ percent of the total amount of work to be performed under the contract. This percentage may be reduced by a supplemental agreement to this contract if, during performing the work, the Contractor requests a reduction and the Contracting Officer determines that the reduction would be to the advantage of the Government.

(End of clause) (R 7-603.15 1965 JAN) (R 1-18.104)

71 52. 236-2 DIFFERING SITE CONDITIONS (APR 1984)

- (a) The Contractor shall promptly, and before the conditions are disturbed, give a written notice to the Contracting Officer of (1) subsurface or latent physical conditions at the site which differ materially from those indicated in this contract, or (2) unknown physical conditions at the site, of an unusual nature, which differ materially from those ordinarily encountered and generally recognized as inhering in work of the character provided for in the contract.
- (b) The Contracting Officer shall investigate the site conditions promptly after receiving the notice. If the conditions do materially so differ and cause an increase or decrease in the Contractor's cost of, or the time required for, performing any part of the work under this contract, whether or not changed as a result of the conditions, an equitable adjustment shall be made under this clause and the contract modified in writing accordingly.
- (c) No request by the Contractor for an equitable adjustment to the contract under this clause shall be allowed, unless the Contractor has given the written notice required; provided, that the time prescribed in (a) above for giving written notice may be extended by the Contracting Officer.
- (d) No request by the Contractor for an equitable adjustment to the contract for differing site conditions shall be allowed if made after final payment under this contract.

(End of clause)

72 52. 236-3 SITE INVESTIGATION AND CONDITIONS AFFECTING THE WORK (APR 1984)

- (a) The Contractor acknowledges that it has taken steps reasonably necessary to ascertain the nature and location of the work, and that it has investigated and satisfied itself as to the general and local conditions which can affect the work or its cost, including but not limited to (1) conditions bearing upon transportation, disposal, handling, and storage of materials; (2) the availability of labor, water, electric power, and roads; (3) uncertainties of weather, river stages, tides, or similar physical conditions at the site; (4) the conformation and conditions of the ground; and (5) the character of equipment and facilities needed preliminary to and during work The Contractor also acknowledges that it has satisfied itself as to the character, quality, and quantity of surface and subsurface materials or obstacles to be encountered insofar as this information is reasonably ascertainable from an inspection of the site, including all exploratory work done by the Government, as well as from the drawings and specifications made a part of this contract. failure of the Contractor to take the actions described and acknowledged in this paragraph will not relieve the Contractor from responsibility for estimating properly the difficulty and cost of successfully performing the work, or for proceeding to successfully perform the work without additional expense to the Government.
- (b) The Government assumes no responsibility for any conclusions or interpretations made by the Contractor based on the information made available by the Government. Nor does the Government assume responsibility for any understanding reached or representation made concerning conditions which can affect the work by any of its officers or agents before the execution of this contract, unless that understanding or representation is expressly stated in this contract.

(End of clause)

73 52. 236-4 PHYSI CAL DATA (APR 1984)

Data and information furnished or referred to below is for the Contractor's information. The Government shall not be responsible for any interpretation of or conclusion drawn from the data or information by the Contractor.

(a) The indications of physical conditions on the drawings and in the specifications are the result of site investigations by

| (b) | Weather conditions |
|-----|---------------------------|
| (c) | Transportation facilities |
| (d) | <u> </u> |
| ` ′ | (End of clause) |
| | (R 7-603.25 1965 JAN) |

74 52. 236-5 MATERIAL AND WORKMANSHIP (APR 1984)

(a) All equipment, material, and articles incorporated into the work covered by this contract shall be new and of the most suitable grade for the purpose intended, unless otherwise specifically provided in this contract. References in the specifications to equipment, material, articles, or patented processes by trade name, make, or catalog number,

shall be regarded as establishing a standard of quality and shall not be construed as limiting competition. The Contractor may, at its option, use any equipment, material, article, or process that, in the judgment of the Contracting Officer, is equal to that named in the specifications, unless otherwise specifically provided in this contract.

- (b) The Contractor shall obtain the Contracting Officer's approval of the machinery and mechanical and other equipment to be incorporated into the work. When requesting approval, the Contractor shall furnish to the Contracting Officer the name of the manufacturer, the model number, and other information concerning the performance, capacity, nature, and rating of the machinery and mechanical and other equipment. When required by this contract or by the Contracting Officer, the Contractor shall also obtain the Contracting Officer's approval of the material or articles which the Contractor contemplates incorporating into the work. When requesting approval, the Contractor shall provide full information concerning the material or articles. When directed to do so, the Contractor shall submit samples for approval at the Contractor's expense, with all shipping charges prepaid. Machinery, equipment, material, and articles that do not have the required approval shall be installed or used at the risk of subsequent rejection.
- (c) All work under this contract shall be performed in a skillful and workmanlike manner. The Contracting Officer may require, in writing, that the Contractor remove from the work any employee the Contracting Officer deems incompetent, careless, or otherwise objectionable.

(End of clause) (R 7-602.9 1964 JUN)

75 52. 236-6 SUPERINTENDENCE BY THE CONTRACTOR (APR 1984)

At all times during performance of this contract and until the work is completed and accepted, the Contractor shall directly superintend the work or assign and have on the work site a competent superintendent who is satisfactory to the Contracting Officer and has authority to act for the Contractor.

(End of clause)

76 52. 236-7 PERMITS AND RESPONSIBILITIES (NOV 1991)

The Contractor shall, without additional expense to the Government, be responsible for obtaining any necessary licenses and permits, and for complying with any Federal, State, and municipal laws, codes, and regulations applicable to the performance of the work. The Contractor shall also be responsible for all damages to persons or property that occur as a result of the Contractor's fault or negligence. The Contractor shall also be responsible for all materials delivered and work performed until completion and acceptance of the entire work, except for any completed unit of work which may have been accepted under the contract. (End of clause)

77 52. 236-8 OTHER CONTRACTS (APR 1984)

The Government may undertake or award other contracts for additional work at or near the site of the work under this contract. The Contractor shall fully cooperate with the other contractors and with Government

employees and shall carefully adapt scheduling and performing the work under this contract to accommodate the additional work, heeding any direction that may be provided by the Contracting Officer. The Contractor shall not commit or permit any act that will interfere with the performance of work by any other contractor or by Government employees.

(End of clause)

78 52. 236-9 PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND IMPROVEMENTS (APR 1984)

- (a) The Contractor shall preserve and protect all structures, equipment, and vegetation (such as trees, shrubs, and grass) on or adjacent to the work site, which are not to be removed and which do not unreasonably interfere with the work required under this contract. The Contractor shall only remove trees when specifically authorized to do so, and shall avoid damaging vegetation that will remain in place. If any limbs or branches of trees are broken during contract performance, or by the careless operation of equipment, or by workmen, the Contractor shall trim those limbs or branches with a clean cut and paint the cut with a tree-pruning compound as directed by the Contracting Officer.
- (b) The Contractor shall protect from damage all existing improvements and utilities (1) at or near the work site, and (2) on adjacent property of a third party, the locations of which are made known to or should be known by the Contractor. The Contractor shall repair any damage to those facilities, including those that are the property of a third party, resulting from failure to comply with the requirements of this contract or failure to exercise reasonable care in performing the work. If the Contractor fails or refuses to repair the damage promptly, the Contracting Officer may have the necessary work performed and charge the cost to the Contractor.

(End of clause)

79 52. 236-10 OPERATIONS AND STORAGE AREAS (APR 1984)

- (a) The Contractor shall confine all operations (including storage of materials) on Government premises to areas authorized or approved by the Contracting Officer. The Contractor shall hold and save the Government, its officers and agents, free and harmless from liability of any nature occasioned by the Contractor's performance.
- (b) Temporary buildings (e.g., storage sheds, shops, offices) and utilities may be erected by the Contractor only with the approval of the Contracting Officer and shall be built with labor and materials furnished by the Contractor without expense to the Government. The temporary buildings and utilities shall remain the property of the Contractor and shall be removed by the Contractor at its expense upon completion of the work. With the written consent of the Contracting Officer, the buildings and utilities may be abandoned and need not be removed.
- (c) The Contractor shall, under regulations prescribed by the Contracting Officer, use only established roadways, or use temporary roadways constructed by the Contractor when and as authorized by the Contracting Officer. When materials are transported in prosecuting the work, vehicles shall not be loaded beyond the loading capacity recommended by the manufacturer of the vehicle or prescribed by any Federal, State, or local law or regulation. When it is necessary to cross curbs or sidewalks, the

Contractor shall protect them from damage. The Contractor shall repair or pay for the repair of any damaged curbs, sidewalks, or roads.

(End of clause)

80 52. 236-11 USE AND POSSESSION PRIOR TO COMPLETION (APR 1984)

- (a) The Government shall have the right to take possession of or use any completed or partially completed part of the work. Before taking possession of or using any work, the Contracting Officer shall furnish the Contractor a list of items of work remaining to be performed or corrected on those portions of the work that the Government intends to take possession of or use. However, failure of the Contracting Officer to list any item of work shall not relieve the Contractor of responsibility for complying with the terms of the contract. The Government's possession or use shall not be deemed an acceptance of any work under the contract.
- (b) While the Government has such possession or use, the Contractor shall be relieved of the responsibility for the loss of or damage to the work resulting from the Government's possession or use, notwithstanding the terms of the clause in this contract entitled "Permits and Responsibilities." If prior possession or use by the Government delays the progress of the work or causes additional expense to the Contractor, an equitable adjustment shall be made in the contract price or the time of completion, and the contract shall be modified in writing accordingly. (End of clause)

81 52. 236-12 CLEANING UP (APR 1984)

The Contractor shall at all times keep the work area, including storage areas, free from accumulations of waste materials. Before completing the work, the Contractor shall remove from the work and premises any rubbish, tools, scaffolding, equipment, and materials that are not the property of the Government. Upon completing the work, the Contractor shall leave the work area in a clean, neat, and orderly condition satisfactory to the Contracting Officer.

(End of clause)

82 52. 236-13 ACCIDENT PREVENTION (NOV 1991)

- (a) The Contractor shall provide and maintain work environments and procedures which will (1) safeguard the public and Government personnel, property, materials, supplies, and equipment exposed to Contractor operations and activities; (2) avoid interruptions of Government operations and delays in project completion dates; and (3) control costs in the performance of this contract.
- (b) For these purposes on contracts for construction or dismantling, demolition, or removal of improvements, the Contractor shall--
 - (1) Provide appropriate safety barricades, signs, and signal lights;
 - (2) Comply with the standards issued by the Secretary of Labor at 29 CFR Part 1926 and 29 CFR Part 1910; and
 - (3) Ensure that any additional measures the Contracting Officer determines to be reasonably necessary for the purposes are taken.
- (c) If this contract is for construction or dismantling, demolition or removal of improvements with any Department of Defense agency or component,

the Contractor shall comply with all pertinent provisions of the latest version of U.S. Army Corps of Engineers Safety and Health Requirements Manual, EM 385-1-1, in effect on the date of the solicitation.

- (d) Whenever the Contracting Officer becomes aware of any noncompliance with these requirements or any condition which poses a serious or imminent danger to the health or safety of the public or Government personnel, the Contracting Officer shall notify the Contractor orally, with written confirmation, and request immediate initiation of corrective action. This notice, when delivered to the Contractor or the Contractor's representative at the work site, shall be deemed sufficient notice of the noncompliance and that corrective action is required. After receiving the notice, the Contractor shall immediately take corrective action. If the Contractor fails or refuses to promptly take corrective action, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. The Contractor shall not be entitled to any equitable adjustment of the contract price or extension of the performance schedule on any stop work order issued under this clause.
- (e) The Contractor shall insert this clause, including this paragraph(e), with appropriate changes in the designation of the parties, in subcontracts.

(End of clause)

83 52. 236-13 I ACCIDENT PREVENTION (NOV 1991) - ALTERNATE I (NOV 1991)

- (a) The Contractor shall provide and maintain work environments and procedures which will (1) safeguard the public and Government personnel, property, materials, supplies, and equipment exposed to Contractor operations and activities; (2) avoid interruptions of Government operations and delays in project completion dates; and (3) control costs in the performance of this contract.
- (b) For these purposes on contracts for construction or dismantling, demolition, or removal of improvements, the Contractor shall--
 - (1) Provide appropriate safety barricades, signs, and signal lights;
 - (2) Comply with the standards issued by the Secretary of Labor at 29 CFR Part 1926 and 29 CFR Part 1910; and
 - (3) Ensure that any additional measures the Contracting Officer determines to be reasonably necessary for the purposes are taken.
- (c) If this contract is for construction or dismantling, demolition or removal of improvements with any Department of Defense agency or component, the Contractor shall comply with all pertinent provisions of the latest version of U.S. Army Corps of Engineers Safety and Health Requirements Manual, EM 385-1-1, in effect on the date of the solicitation.
- (d) Whenever the Contracting Officer becomes aware of any noncompliance with these requirements or any condition which poses a serious or imminent danger to the health or safety of the public or Government personnel, the Contracting Officer shall notify the Contractor orally, with written confirmation, and request immediate initiation of corrective action. This notice, when delivered to the Contractor or the Contractor's representative at the work site, shall be deemed sufficient notice of the noncompliance and that corrective action is required. After receiving the notice, the Contractor shall immediately take corrective action. If the Contractor fails or refuses to promptly take corrective action, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. The Contractor shall not be entitled to any equitable adjustment of the contract price or extension of the performance schedule on any stop work order issued under

this clause.

- (e) The Contractor shall insert this clause, including this paragraph (e), with appropriate changes in the designation of the parties, in subcontracts.
 - (f) Before commencing the work, the Contractor shall--
 - (1) Submit a written proposed plan for implementing this clause. The plan shall include an analysis of the significant hazards to life, limb, and property inherent in contract work performance and a plan for controlling these hazards; and
 - (2) Meet with representatives of the Contracting Officer to discuss and develop a mutual understanding relative to administration of the overall safety program.

(End of clause)

84 52. 236-14 AVAILABILITY AND USE OF UTILITY SERVICES (APR 1984)

- (a) The Government shall make all reasonably required amounts of utilities available to the Contractor from existing outlets and supplies, as specified in the contract. Unless otherwise provided in the contract, the amount of each utility service consumed shall be charged to or paid for by the Contractor at prevailing rates charged to the Government or, where the utility is produced by the Government, at reasonable rates determined by the Contracting Officer. The Contractor shall carefully conserve any utilities furnished without charge.
- (b) The Contractor, at its expense and in a workmanlike manner satisfactory to the Contracting Officer, shall install and maintain all necessary temporary connections and distribution lines, and all meters required to measure the amount of each utility used for the purpose of determining charges. Before final acceptance of the work by the Government, the Contractor shall remove all the temporary connections, distribution lines, meters, and associated paraphernalia.

(End of clause) (R 7-603.30 1967 APR) (R 7-2102.4 1976 OCT)

85 52. 236-15 SCHEDULES FOR CONSTRUCTION CONTRACTS (APR 1984)

- (a) The Contractor shall, within five days after the work commences on the contract or another period of time determined by the Contracting Officer, prepare and submit to the Contracting Officer for approval three copies of a practicable schedule showing the order in which the Contractor proposes to perform the work, and the dates on which the Contractor contemplates starting and completing the several salient features of the work (including acquiring materials, plant, and equipment). The schedule shall be in the form of a progress chart of suitable scale to indicate appropriately the percentage of work scheduled for completion by any given date during the period. If the Contractor fails to submit a schedule within the time prescribed, the Contracting Officer may withhold approval of progress payments until the Contractor submits the required schedule.
- (b) The Contractor shall enter the actual progress on the chart as directed by the Contracting Officer, and upon doing so shall immediately deliver three copies of the annotated schedule to the Contracting Officer. If, in the opinion of the Contracting Officer, the Contractor falls behind the approved schedule, the Contractor shall take steps necessary to improve its progress, including those that may be required by the Contracting

- Officer, without additional cost to the Government. In this circumstance, the Contracting Officer may require the Contractor to increase the number of shifts, overtime operations, days of work, and/or the amount of construction plant, and to submit for approval any supplementary schedule or schedules in chart form as the Contracting Officer deems necessary to demonstrate how the approved rate of progress will be regained.
- (c) Failure of the Contractor to comply with the requirements of the Contracting Officer under this clause shall be grounds for a determination by the Contracting Officer that the Contractor is not prosecuting the work with sufficient diligence to ensure completion within the time specified in the contract. Upon making this determination, the Contracting Officer may terminate the Contractor's right to proceed with the work, or any separable part of it, in accordance with the default terms of this contract.

 (End of clause)

86 52.236-17 LAYOUT OF WORK (APR 1984) (Reference 36.517) 87 52.236-21 SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION (FEB 1997)

- (a) The Contractor shall keep on the work site a copy of the drawings and specifications and shall at all times give the Contracting Officer access thereto. Anything mentioned in the specifications and not shown on the drawings, or shown on the drawings and not mentioned in the specifications, shall be of like effect as if shown or mentioned in both. In case of difference between drawings and specifications, the specifications shall govern. In case of discrepancy in the figures, in the drawings, or in the specifications, the matter shall be promptly submitted to the Contracting Officer, who shall promptly make a determination in writing. Any adjustment by the Contractor without such a determination shall be at its own risk and expense. The Contracting Officer shall furnish from time to time such detailed drawings and other information as considered necessary, unless otherwise provided.
- (b) Wherever in the specifications or upon the drawings the words "directed", "required", "ordered", "designated", "prescribed", or words of like import are used, it shall be understood that the "direction", "requirement", "order", "designation", or "prescription", of the Contracting Officer is intended and similarly the words "approved", "acceptable", "satisfactory", or words of like import shall mean "approved by", or "acceptable to", or "satisfactory to" the Contracting Officer, unless otherwise expressly stated.
- (c) Where "as shown," "as indicated", "as detailed", or words of similar import are used, it shall be understood that the reference is made to the drawings accompanying this contract unless stated otherwise. The word "provided" as used herein shall be understood to mean "provide complete in place," that is "furnished and installed".
- (d) Shop drawings means drawings, submitted to the Government by the Contractor, subcontractor, or any lower tier subcontractor pursuant to a construction contract, showing in detail (1) the proposed fabrication and assembly of structural elements, and (2) the installation (i.e., fit, and attachment details) of materials or equipment. It includes drawings, diagrams, layouts, schematics, descriptive literature, illustrations, schedules, performance and test data, and similar materials furnished by the contractor to explain in detail specific portions of the work required by the contract. The Government may duplicate, use, and disclose in any manner and for any purpose shop drawings delivered under this contract.
- (e) If this contract requires shop drawings, the Contractor shall coordinate all such drawings, and review them for accuracy, completeness,

and compliance with contract requirements and shall indicate its approval thereon as evidence of such coordination and review. Shop drawings submitted to the Contracting Officer without evidence of the Contractor's approval may be returned for resubmission. The Contracting Officer will indicate an approval or disapproval of the shop drawings and if not approved as submitted shall indicate the Government's reasons therefor. Any work done before such approval shall be at the Contractor's risk. Approval by the Contracting Officer shall not relieve the Contractor from responsibility for any errors or omissions in such drawings, nor from responsibility for complying with the requirements of this contract, except with respect to variations described and approved in accordance with (f) below.

- (f) If shop drawings show variations from the contract requirements, the Contractor shall describe such variations in writing, separate from the drawings, at the time of submission. If the Contracting Officer approves any such variation, the Contracting Officer shall issue an appropriate contract modification, except that, if the variation is minor or does not involve a change in price or in time of performance, a modification need not be issued.
- (g) The Contractor shall submit to the Contracting Officer for approval four copies (unless otherwise indicated) of all shop drawings as called for under the various headings of these specifications. Three sets (unless otherwise indicated) of all shop drawings, will be retained by the Contracting Officer and one set will be returned to the Contractor.

 (End of clause)

88 52. 236-26 PRECONSTRUCTION CONFERENCE (FEB 1995)

If the Contracting Officer decides to conduct a preconstruction conference, the successful offeror will be notified and will be required to attend. The Contracting Officer's notification will include specific details regarding the date, time, and location of the conference, any need for attendance by subcontractors, and information regarding the items to be discussed.

(End of clause)

89 52. 236-7000 MODIFICATION PROPOSALS--PRICE BREAKDOWN (DEC 1991)

- (a) The Contractor shall furnish a price breakdown, itemized as required and within the time specified by the Contracting Officer, with any proposal for a contract modification.
 - (b) The price breakdown--
 - (1) Must include sufficient detail to permit an analysis of profit, and of all costs for--
 - (i) Material;
 - (ii) Labor;
 - (iii) Equipment;
 - (iv) Subcontracts; and
 - (v) Overhead; and
 - (2) Must cover all work involved in the modification, whether the work was deleted, added, or changed.
- (c) The Contractor shall provide similar price breakdowns to support any amounts claimed for subcontracts.
- (d) The Contractor's proposal shall include a justification for any time extension proposed.

(End of clause)

(a) The Government--

90

- (1) Will provide the Contractor, without charge, ______ sets (five unless otherwise specified) of large-scale contract drawings and specifications except publications incorporated into the technical provisions by reference;
- (2) Will furnish additional sets on request, for the cost of reproduction; and
- (3) May, at its option, furnish the Contractor one set of reproducibles, or half-size drawings, in lieu of the drawings in paragraph (a)(1) of this clause.
- (b) The Contractor shall--
 - (1) Check all drawings furnished immediately upon receipt;
- (2) Compare all drawings and verify the figures before laying out the work:
 - (3) Promptly notify the Contracting Officer of any discrepancies; and
- (4) Be responsible for any errors which might have been avoided by complying with this paragraph (b).
- (c) Large scale drawings shall, in general, govern small scale drawings. Figures marked on drawings shall, in general, be followed in preference to scale measurements.
- (d) Omissions from the drawings or specifications or the misdescription of details of work which are manifestly necessary to carry out the intent of the drawings and specifications, or which are customarily performed, shall not relieve the Contractor from performing such omitted or misdescribed details of the work, but shall be performed as if fully and correctly set forth and described in the drawings and specifications.
- (e) The work shall conform to the specifications and the contract drawings identified on the following index of drawings:

Title File and Drawing No.

(End of clause)

91 52. 242-13 BANKRUPTCY (JUL 1995)

In the event the Contractor enters into proceedings relating to bankruptcy, whether voluntary or involuntary, the Contractor agrees to furnish, by certified mail or electronic commerce method authorized by the contract, written notification of the bankruptcy to the Contracting Officer responsible for administering the contract. This notification shall be furnished within five days of the initiation of the proceedings relating to bankruptcy filing. This notification shall include the date on which the bankruptcy petition was filed, the identity of the court in which the bankruptcy petition was filed, and a listing of Government contract numbers and contracting offices for all Government contracts against which final payment has not been made. This obligation remains in effect until final payment under this contract.

(End of clause)

92 52. 242-14 SUSPENSION OF WORK (APR 1984)

(a) The Contracting Officer may order the Contractor, in writing, to suspend, delay, or interrupt all or any part of the work of this contract for the period of time that the Contracting Officer determines appropriate

for the convenience of the Government.

- (b) If the performance of all or any part of the work is, for an unreasonable period of time, suspended, delayed, or interrupted (1) by an act of the Contracting Officer in the administration of this contract, or (2) by the Contracting Officer's failure to act within the time specified in this contract (or within a reasonable time if not specified), an adjustment shall be made for any increase in the cost of performance of this contract (excluding profit) necessarily caused by the unreasonable suspension, delay, or interruption, and the contract modified in writing accordingly. However, no adjustment shall be made under this clause for any suspension, delay, or interruption to the extent that performance would have been so suspended, delayed, or interrupted by any other cause, including the fault or negligence of the Contractor, or for which an equitable adjustment is provided for or excluded under any other term or condition of this contract.
- (c) A claim under this clause shall not be allowed (1) for any costs incurred more than 20 days before the Contractor shall have notified the Contracting Officer in writing of the act or failure to act involved (but this requirement shall not apply as to a claim resulting from a suspension order), and (2) unless the claim, in an amount stated, is asserted in writing as soon as practicable after the termination of the suspension, delay, or interruption, but not later than the date of final payment under the contract.

(End of clause)

93 52. 243-4 CHANGES (AUG 1987) (Reference 43. 205(d)) 94 52. 243-7001 PRICING OF CONTRACT MODIFICATIONS (DEC 1991)

When costs are a factor in any price adjustment under this contract, the contract cost principles and procedures in FAR Part 31 and DFARS Part 231, in effect on the date of this contract, apply.

(End of clause)

95 52. 244-6 SUBCONTRACTS FOR COMMERCIAL ITEMS AND COMMERCIAL COMPONENTS (OCT 1998)

(a) Definition.

"Commercial item," as used in this clause, has the meaning contained in the clause at 52.202-1, Definitions.

"Subcontract," as used in this clause, includes a transfer of commercial items between divisions, subsidiaries, or affiliates of the Contractor or subcontractor at any tier.

- (b) To the maximum extent practicable, the Contractor shall incorporate, and require its subcontractors at all tiers to incorporate, commercial items or nondevelopmental items as components of items to be supplied under this contract.
- (c) Notwithstanding any other clause of this contract, the Contractor is not required to include any FAR provision or clause, other than those listed below to the extent they are applicable and as may be required to establish the reasonableness of prices under Part 15, in a subcontract at any tier for commercial items or commercial components:
 - (1) 52. 222-26, Equal Opportunity (E. 0. 11246);
 - (2) 52.222-35, Affirmative Action for Disabled Veterans and Veterans of the Vietnam Era (38 U.S.C. 4212(a));
 - (3) 52.222-36, Affirmative Action for Workers with Disabilities

(29 U. S. C. 793); and

- (4) 52.247-64, Preference for Privately Owned U.S.-Flagged Commercial Vessels (46 U.S.C. 1241) (flow down not required for subcontracts awarded beginning May 1, 1996).
- (d) The Contractor shall include the terms of this clause, including this paragraph (d), in subcontracts awarded under this contract.

 (End of clause)

96 52. 246-12 INSPECTION OF CONSTRUCTION (AUG 1996)

- (a) Definition. "Work" includes, but is not limited to, materials, workmanship, and manufacture and fabrication of components.
- (b) The Contractor shall maintain an adequate inspection system and perform such inspections as will ensure that the work performed under the contract conforms to contract requirements. The Contractor shall maintain complete inspection records and make them available to the Government. All work shall be conducted under the general direction of the Contracting Officer and is subject to Government inspection and test at all places and at all reasonable times before acceptance to ensure strict compliance with the terms of the contract.
- (c) Government inspections and tests are for the sole benefit of the Government and do not-- $\,$
 - (1) Relieve the Contractor of responsibility for providing adequate quality control measures;
 - (2) Relieve the Contractor of responsibility for damage to or loss of the material before acceptance;
 - (3) Constitute or imply acceptance; or
 - (4) Affect the continuing rights of the Government after acceptance of the completed work under paragraph (i) below.
- (d) The presence or absence of a Government inspector does not relieve the Contractor from any contract requirement, nor is the inspector authorized to change any term or condition of the specification without the Contracting Officer's written authorization.
- (e) The Contractor shall promptly furnish, at no increase in contract price, all facilities, labor, and material reasonably needed for performing such safe and convenient inspections and tests as may be required by the Contracting Officer. The Government may charge to the Contractor any additional cost of inspection or test when work is not ready at the time specified by the Contractor for inspection or test, or when prior rejection makes reinspection or retest necessary. The Government shall perform all inspections and tests in a manner that will not unnecessarily delay the work. Special, full size, and performance tests shall be performed as described in the contract.
- (f) The Contractor shall, without charge, replace or correct work found by the Government not to conform to contract requirements, unless in the public interest the Government consents to accept the work with an appropriate adjustment in contract price. The Contractor shall promptly segregate and remove rejected material from the premises.
- (g) If the Contractor does not promptly replace or correct rejected work, the Government may (1) by contract or otherwise, replace or correct the work and charge the cost to the Contractor or (2) terminate for default the Contractor's right to proceed.
- (h) If, before acceptance of the entire work, the Government decides to examine already completed work by removing it or tearing it out, the Contractor, on request, shall promptly furnish all necessary facilities, labor, and material. If the work is found to be defective or nonconforming

in any material respect due to the fault of the Contractor or its subcontractors, the Contractor shall defray the expenses of the examination and of satisfactory reconstruction. However, if the work is found to meet contract requirements, the Contracting Officer shall make an equitable adjustment for the additional services involved in the examination and reconstruction, including, if completion of the work was thereby delayed, an extension of time.

(i) Unless otherwise specified in the contract, the Government shall accept, as promptly as practicable after completion and inspection, all work required by the contract or that portion of the work the Contracting Officer determines can be accepted separately. Acceptance shall be final and conclusive except for latent defects, fraud, gross mistakes amounting to fraud, or the Government's rights under any warranty or guarantee.

(End of clause)

97 52. 246-21 WARRANTY OF CONSTRUCTION (MAR 1994)

- (a) In addition to any other warranties in this contract, the Contractor warrants, except as provided in paragraph (i) of this clause, that work performed under this contract conforms to the contract requirements and is free of any defect in equipment, material, or design furnished, or workmanship performed by the Contractor or any subcontractor or supplier at any tier.
- (b) This warranty shall continue for a period of 1 year from the date of final acceptance of the work. If the Government takes possession of any part of the work before final acceptance, this warranty shall continue for a period of 1 year from the date the Government takes possession.
- (c) The Contractor shall remedy at the Contractor's expense any failure to conform, or any defect. In addition, the Contractor shall remedy at the Contractor's expense any damage to Government-owned or controlled real or personal property, when that damage is the result of--
 - (1) The Contractor's failure to conform to contract requirements; or
 - (2) Any defect of equipment, material, workmanship, or design furnished.
- (d) The Contractor shall restore any work damaged in fulfilling the terms and conditions of this clause. The Contractor's warranty with respect to work repaired or replaced will run for 1 year from the date of repair or replacement.
- (e) The Contracting Officer shall notify the Contractor, in writing, within a reasonable time after the discovery of any failure, defect, or damage.
- (f) If the Contractor fails to remedy any failure, defect, or damage within a reasonable time after receipt of notice, the Government shall have the right to replace, repair, or otherwise remedy the failure, defect, or damage at the Contractor's expense.
- (g) With respect to all warranties, express or implied, from subcontractors, manufacturers, or suppliers for work performed and materials furnished under this contract, the Contractor shall--
 - (1) Obtain all warranties that would be given in normal commercial practice;
 - (2) Require all warranties to be executed, in writing, for the benefit of the Government, if directed by the Contracting Officer; and
 - (3) Enforce all warranties for the benefit of the Government, if directed by the Contracting Officer.
- (h) In the event the Contractor's warranty under paragraph (b) of this clause has expired, the Government may bring suit at its expense to

enforce a subcontractor's, manufacturer's, or supplier's warranty.

- (i) Unless a defect is caused by the negligence of the Contractor or subcontractor or supplier at any tier, the Contractor shall not be liable for the repair of any defects of material or design furnished by the Government nor for the repair of any damage that results from any defect in Government-furnished material or design.
- (j) This warranty shall not limit the Government's rights under the Inspection and Acceptance clause of this contract with respect to latent defects, gross mistakes, or fraud.

(End of clause) (R 7-604.4 1976 JUL)

98 52. 249-2 I TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED-PRICE) (SEP 1996) -- ALTERNATE I (SEP 1996)

- (a) The Government may terminate performance of work under this contract in whole or, from time to time, in part if the Contracting Officer determines that a termination is in the Government's interest. The Contracting Officer shall terminate by delivering to the Contractor a Notice of Termination specifying the extent of termination and the effective date.
- (b) After receipt of a Notice of Termination, and except as directed by the Contracting Officer, the Contractor shall immediately proceed with the following obligations, regardless of any delay in determining or adjusting any amounts due under this clause:
 - (1) Stop work as specified in the notice.
 - (2) Place no further subcontracts or orders (referred to as subcontracts in this clause) for materials, services, or facilities, except as necessary to complete the continued portion of the contract.
 - (3) Terminate all subcontracts to the extent they relate to the work terminated.
 - (4) Assign to the Government, as directed by the Contracting Officer, all right, title, and interest of the Contractor under the subcontracts terminated, in which case the Government shall have the right to settle or to pay any termination settlement proposal arising out of those terminations.
 - (5) With approval or ratification to the extent required by the Contracting Officer, settle all outstanding liabilities and termination settlement proposals arising from the termination of subcontracts; the approval or ratification will be final for purposes of this clause.
 - (6) As directed by the Contracting Officer, transfer title and deliver to the Government (i) the fabricated or unfabricated parts, work in process, completed work, supplies, and other material produced or acquired for the work terminated, and (ii) the completed or partially completed plans, drawings, information, and other property that, if the contract had been completed, would be required to be furnished to the Government.
 - (7) Complete performance of the work not terminated.
 - (8) Take any action that may be necessary, or that the Contracting Officer may direct, for the protection and preservation of the property related to this contract that is in the possession of the Contractor and in which the Government has or may acquire an interest.
 - (9) Use its best efforts to sell, as directed or authorized by the Contracting Officer, any property of the types referred to in subparagraph (b)(6) of this clause; provided, however, that the Contractor (i) is not required to extend credit to any purchaser and (ii)

may acquire the property under the conditions prescribed by, and at prices approved by, the Contracting Officer. The proceeds of any transfer or disposition will be applied to reduce any payments to be made by the Government under this contract, credited to the price or cost of the work, or paid in any other manner directed by the Contracting Officer.

- (c) The Contractor shall submit complete termination inventory schedules no later than 120 days from the effective date of termination, unless extended in writing by the Contracting Officer upon written request of the Contractor within this 120-day period.
- (d) After expiration of the plant clearance period as defined in Subpart 45.6 of the Federal Acquisition Regulation, the Contractor may submit to the Contracting Officer a list, certified as to quantity and quality, of termination inventory not previously disposed of, excluding items authorized for disposition by the Contracting Officer. The Contractor may request the Government to remove those items or enter into an agreement for their storage. Within 15 days, the Government will accept title to those items and remove them or enter into a storage agreement. The Contracting Officer may verify the list upon removal of the items, or if stored, within 45 days from submission of the list, and shall correct the list, as necessary, before final settlement.
- (e) After termination, the Contractor shall submit a final termination settlement proposal to the Contracting Officer in the form and with the certification prescribed by the Contracting Officer. The Contractor shall submit the proposal promptly, but no later than 1 year from the effective date of termination, unless extended in writing by the Contracting Officer upon written request of the Contractor within this 1 year period. However, if the Contracting Officer determines that the facts justify it, a termination settlement proposal may be received and acted on after 1 year or any extension. If the Contractor fails to submit the proposal within the time allowed, the Contracting Officer may determine, on the basis of information available, the amount, if any, due the Contractor because of the termination and shall pay the amount determined.
- (f) Subject to paragraph (e) of this clause, the Contractor and the Contracting Officer may agree upon the whole or any part of the amount to be paid or remaining to be paid because of the termination. The amount may include a reasonable allowance for profit on work done. However, the agreed amount, whether under this paragraph (f) or paragraph (g) of this clause, exclusive of costs shown in subparagraph (g) (3) of this clause, may not exceed the total contract price as reduced by (1) the amount of payments previously made and (2) the contract price of work not terminated. The contract shall be modified, and the Contractor paid the agreed amount. Paragraph (g) of this clause shall not limit, restrict, or affect the amount that may be agreed upon to be paid under this paragraph.
- (g) If the Contractor and Contracting Officer fail to agree on the whole amount to be paid the Contractor because of the termination of work, the Contracting Officer shall pay the Contractor the amounts determined as follows, but without duplication of any amounts agreed upon under paragraph (f) of this clause:
 - (1) For contract work performed before the effective date of termination, the total (without duplication of any items) of--
 - (i) The cost of this work;
 - (ii) The cost of settling and paying termination settlement proposals under terminated subcontracts that are properly chargeable to the terminated portion of the contract if not included in subdivision (g)(1)(i) of this clause; and
 - (iii) A sum, as profit on subdivision (g)(1)(i) of this clause,

determined by the Contracting Officer under 49.202 of the Federal Acquisition Regulation, in effect on the date of this contract, to be fair and reasonable; however, if it appears that the Contractor would have sustained a loss on the entire contract had it been completed, the Contracting Officer shall allow no profit under this subdivision (iii) and shall reduce the settlement to reflect the indicated rate of loss.

(2) The reasonable costs of settlement of the work terminated, including--

- (i) Accounting, legal, clerical, and other expenses reasonably necessary for the preparation of termination settlement proposals and supporting data;
- (ii) The termination and settlement of subcontracts (excluding the amounts of such settlements); and
- (iii) Storage, transportation, and other costs incurred, reasonably necessary for the preservation, protection, or disposition of the termination inventory.
- (h) Except for normal spoilage, and except to the extent that the Government expressly assumed the risk of loss, the Contracting Officer shall exclude from the amounts payable to the Contractor under paragraph (g) of this clause, the fair value, as determined by the Contracting Officer, of property that is destroyed, lost, stolen, or damaged so as to become undeliverable to the Government or to a buyer.
- (i) The cost principles and procedures of Part 31 of the Federal Acquisition Regulation, in effect on the date of this contract, shall govern all costs claimed, agreed to, or determined under this clause.
- (j) The Contractor shall have the right of appeal, under the Disputes clause, from any determination made by the Contracting Officer under paragraph (e), (g), or (l) of this clause, except that if the Contractor failed to submit the termination settlement proposal or request for equitable adjustment within the time provided in paragraph (e) or (l), respectively, and failed to request a time extension, there is no right of appeal.
- (k) In arriving at the amount due the Contractor under this clause, there shall be deducted--
 - (1) All unliquidated advance or other payments to the Contractor under the terminated portion of this contract;
 - (2) Any claim which the Government has against the Contractor under this contract; and
 - (3) The agreed price for, or the proceeds of sale of, materials, supplies, or other things acquired by the Contractor or sold under the provisions of this clause and not recovered by or credited to the Government
- (1) If the termination is partial, the Contractor may file a proposal with the Contracting Officer for an equitable adjustment of the price(s) of the continued portion of the contract. The Contracting Officer shall make any equitable adjustment agreed upon. Any proposal by the Contractor for an equitable adjustment under this clause shall be requested within 90 days from the effective date of termination unless extended in writing by the Contracting Officer.
- (m)(1) The Government may, under the terms and conditions it prescribes, make partial payments and payments against costs incurred by the Contractor for the terminated portion of the contract, if the Contracting Officer believes the total of these payments will not exceed the amount to which the Contractor will be entitled.
 - (2) If the total payments exceed the amount finally determined to be due, the Contractor shall repay the excess to the Government upon demand, together with interest computed at the rate established by the

Secretary of the Treasury under 50 U.S.C. App. 1215(b)(2). Interest shall be computed for the period from the date the excess payment is received by the Contractor to the date the excess is repaid. Interest shall not be charged on any excess payment due to a reduction in the Contractor's termination settlement proposal because of retention or other disposition of termination inventory until 10 days after the date of the retention or disposition, or a later date determined by the Contracting Officer because of the circumstances.

(n) Unless otherwise provided in this contract or by statute, the Contractor shall maintain all records and documents relating to the terminated portion of this contract for 3 years after final settlement. This includes all books and other evidence bearing on the Contractor's costs and expenses under this contract. The Contractor shall make these records and documents available to the Government, at the Contractor's office, at all reasonable times, without any direct charge. If approved by the Contracting Officer, photographs, microphotographs, or other authentic reproductions may be maintained instead of original records and documents.

(End of clause)

99 52. 249-10 DEFAULT (FIXED-PRICE CONSTRUCTION) (APR 1984)

- (a) If the Contractor refuses or fails to prosecute the work or any separable part, with the diligence that will insure its completion within the time specified in this contract including any extension, or fails to complete the work within this time, the Government may, by written notice to the Contractor, terminate the right to proceed with the work (or the separable part of the work) that has been delayed. In this event, the Government may take over the work and complete it by contract or otherwise, and may take possession of and use any materials, appliances, and plant on the work site necessary for completing the work. The Contractor and its sureties shall be liable for any damage to the Government resulting from the Contractor's refusal or failure to complete the work within the specified time, whether or not the Contractor's right to proceed with the work is terminated. This liability includes any increased costs incurred by the Government in completing the work.
- (b) The Contractor's right to proceed shall not be terminated nor the Contractor charged with damages under this clause, if-
 - (1) The delay in completing the work arises from unforeseeable causes beyond the control and without the fault or negligence of the Contractor. Examples of such causes include (i) acts of God or of the public enemy, (ii) acts of the Government in either its sovereign or contractual capacity, (iii) acts of another Contractor in the performance of a contract with the Government, (iv) fires, (v) floods, (vi) epidemics, (vii) quarantine restrictions, (viii) strikes, (ix) freight embargoes, (x) unusually severe weather, or (xi) delays of subcontractors or suppliers at any tier arising from unforeseeable causes beyond the control and without the fault or negligence of both the Contractor and the subcontractors or suppliers; and
 - (2) The Contractor, within 10 days from the beginning of any delay (unless extended by the Contracting Officer), notifies the Contracting Officer in writing of the causes of delay. The Contracting Officer shall ascertain the facts and the extent of delay. If, in the judgment of the Contracting Officer, the findings of fact warrant such action, the time for completing the work shall be extended. The findings of the Contracting Officer shall be final and conclusive on the parties, but

subject to appeal under the Disputes clause.

- (c) If, after termination of the Contractor's right to proceed, it is determined that the Contractor was not in default, or that the delay was excusable, the rights and obligations of the parties will be the same as if the termination had been issued for the convenience of the Government.
- (d) The rights and remedies of the Government in this clause are in addition to any other rights and remedies provided by law or under this contract.

(End of clause)

100 52. 249-7002 NOTIFICATION OF ANTICIPATED CONTRACT TERMINATION OR REDUCTION (DEC 1996)

(a) Definitions.

"Major defense program" means a program that is carried out to produce or acquire a major system (as defined in 10 U.S.C. 2302(5)) (see also DoD 5000.2-R, Mandatory Procedures for Major Defense Acquisition Programs (MDAPs) and Major Automated Information System (MAIS) Acquisition Programs).

"Substantial reduction" means a reduction of 25 percent or more in the total dollar value of funds obligated by the contract.

- (b) Section 1372 of the National Defense Authorization Act for Fiscal Year 1994 (Pub. L. 103-160) and Section 824 of the National Defense Authorization Act for Fiscal Year 1997 (Pub. L. 104-201) are intended to help establish benefit eligibility under the Job Training Partnership Act (29 U. S. C. 1661 and 1662) for employees of DoD contractors and subcontractors adversely affected by contract terminations or substantial reductions under major defense programs.
- (c) Notice to employees and state and local officials. Within 2 weeks after the Contracting Officer notifies the Contractor that contract funding will be terminated or substantially reduced, the Contractor shall provide notice of such anticipated termination or reduction to--
 - (1) Each employee representative of the Contractor's employees whose work is directly related to the defense contract; or
 - (2) If there is no such representative, each such employee;
 - (3) The State dislocated worker unit or office described in section 311(b)(2) of the Job Training Partnership Act (29 U.S.C. 1661(b)(2)); and
 - (4) The chief elected official of the unit of general local government within which the adverse effect may occur.
- (d) Notice to subcontractors. Not later than 60 days after the Contractor receives the Contracting Officer's notice of the anticipated termination or reduction, the Contractor shall--
 - (1) Provide notice of the anticipated termination or reduction to each first-tier subcontractor with a subcontract of \$500,000 or more; and
 - (2) Require that each such subcontractor--
 - (i) Provide notice to each of its subcontractors with a subcontract of \$100,000 or more; and
 - (ii) Impose a similar notice and flowdown requirement to subcontractors with subcontracts of \$100,000 or more.
- (e) The notice provided an employee under paragraph (c) of this clause shall have the same effect as a notice of termination to the employee for the purposes of determining whether such employee is eligible for training, adjustment assistance, and employment services under section 325 or 325A of the Job Training Partnership Act (29 U.S.C. 1662d, 1662d-1). If the Contractor has specified that the anticipated contract termination or reduction is not likely to result in plant closure or mass layoff, as

defined in 29 U.S.C. 2101, the employee shall be eligible only for services under section 314(b) and paragraphs (1) through (14), (16), and (18) of section 314(c) of the Job Training Partnership Act (29 U.S.C. 1661c(b) and paragraphs (1) through (14), (16), and (18) of section 1661c(c)).

(End of clause)

101 52. 252-4 ALTERATIONS IN CONTRACT (APR 1984)

Portions of this contract are altered as follows:

(End of clause) (R 7-105.1(a) 1949 JUL)

102 52. 252-6 AUTHORIZED DEVIATIONS IN CLAUSES (APR 1984)

(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.

(b) The use in this solicitation or contract of any _____ (48 CFR ____) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

(End of clause) (NM)

103 52. 253-1 COMPUTER GENERATED FORMS (JAN 1991)

- (a) Any data required to be submitted on a Standard or Optional Form prescribed by the Federal Acquisition Regulation (FAR) may be submitted on a computer generated version of the form, provided there is no change to the name, content, or sequence of the data elements on the form, and provided the form carries the Standard or Optional Form number and edition date.
- (b) Unless prohibited by agency regulations, any data required to be submitted on an agency unique form prescribed by an agency supplement to the FAR may be submitted on a computer generated version of the form provided there is no change to the name, content, or sequence of the data elements on the form and provided the form carries the agency form number and edition date.
- (c) If the Contractor submits a computer generated version of a form that is different than the required form, then the rights and obligations of the parties will be determined based on the content of the required form.

(End of clause)

END OF SECTION 00700

PARAGRAPH NO.

SECTION 00800

SPECIAL CLAUSES

TABLE OF CONTENTS

PARAGRAPH TITLE

| COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK |
|--|
| LIQUIDATED DAMAGES - CONSTRUCTION |
| TIME EXTENSIONS |
| <u>DELETED - VARIATIONS IN ESTIMATED QUANTITIES - SUBDIVIDED</u> ITEMS |
| INSURANCE - WORK ON A GOVERNMENT INSTALLATION |
| DELETED - CONTINUING CONTRACTS |
| PERFORMANCE OF WORK BY THE CONTRACTOR |
| PHYSICAL DATA |
| <u>DELETED - QUANTITY SURVEYS</u> |
| LAYOUT OF WORK |
| DELETED - PAYMENT FOR MOBILIZATION AND DEMOBILIZATION |
| <u>DELETED - AIRFIELD SAFETY PRECAUTIONS</u> |
| DELETED - IDENTIFICATION OF GOVERNMENT-FURNISHED |
| PROPERTY |
| EQUIPMENT OWNERSHIP AND OPERATING EXPENSE SCHEDULE |
| <u>DELETED - PAYMENT FOR MATERIALS DELIVERED OFF-SITE</u> |
| ORDER OF PRECEDENCE |
| <u>DELETED - LIMITATION OF PAYMENT FOR DESIGN</u> |
| <u>DELETED - CONTRACT DRAWINGS</u> , MAPS AND SPECIFICATIONS |
| <u>DELETED - TECHNICAL PROPOSAL - COPIES TO BE FURNISHED UPON</u> |
| AWARD |
| COMPLIANCE CERTIFICATION |
| <u>DELETED -</u> EPA ENERGY STAR |
| <u>DELETED - YEAR 2000 COMPLIANCE</u> |
| RECOVERED MATERIALS |
| |

SECTION 00800

SPECIAL CLAUSES

SC-1. COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK

The Contractor shall be required to (a) commence work under this Contract within 7 calendar days after the date the Contractor receives the notice to proceed for demolition, (b) prosecute the work diligently, and (c) complete the entire work ready for use not later than the time specified in the terms of this contract. The work shall be completed in the time as specified in Schedule Item No. 0006 Time Schedule provided with NAFF53-99-R-0043, Design-Build Golf Course Clubhouse and Cart Storage Facilities.

SC-2. LIQUIDATED DAMAGES - CONSTRUCTION

- (a) If the Contractor fails to complete the work within the time specified in the Special Clause SC-1, or any extension, the Contractor shall pay to the Government as liquidated damages, the sum of \$1,152 for each day of delay.
- (b) If the Government terminates the Contractor's right to proceed, the resulting damage will consist of liquidated damages until such reasonable time as may be required for final completion of the work together with any increased costs occasioned the Government in completing the work.
- (c) If the Government does not terminate the Contractor's right to proceed, the resulting damage will consist of liquidated damages until the work is completed or accepted.

SC-3. TIME EXTENSIONS

Notwithstanding any other provisions of this Contract, it is mutually understood that the time extensions for changes in the work will depend upon the extent, if any, by which the changes cause delay in the completion of the various elements of construction. The change order granting the time extension may provide that the Contract completion date will be extended only for those specific elements so delayed and that the remaining Contract completion dates for all other portions of the work will not be altered and may further provide for an equitable readjustment of liquidated damages under the new completion schedule.

SC-4. DELETED.

- SC-5. INSURANCE WORK ON A GOVERNMENT INSTALLATION (SEP 1989) (FAR 52.228-5)
- (a) The Contractor shall, at its own expense, provide and maintain during the entire performance period of this Contract at least the kinds and minimum amounts of insurance required in the Insurance Liability Schedule or elsewhere in the Contract.
- (b) Before commencing work under this Contract, the Contractor shall certify to the Contracting Officer in writing that the required insurance has been obtained. The policies

evidencing required insurance shall contain an endorsement to the effect that any cancellation or any material change adversely affecting the Government's interest shall not be effective:

- (1) for such period as the laws of the State in which this Contract is to be performed prescribe; or
- (2) until 30 days after the insurer or the Contractor gives written notice to the Contracting Officer, whichever period is longer.
- (c) The Contractor shall insert the substance of this clause, including this paragraph (c), in subcontracts under this Contract that require work on a Government installation and shall require subcontractors to provide and maintain the insurance required in the Schedule or elsewhere in the Contract. The Contractor shall maintain a copy of all subcontractors' proofs of required insurance, and shall make copies available to the Contracting Officer upon request.
 - (d) Insurance Liability Schedule (FAR 28.307-2)
- (1) Workers' compensation and employer's liability. Contractors are required to comply with applicable Federal and State workers' compensation and occupational disease statutes. If occupational diseases are not compensable under those statutes, they shall be covered under the employer's liability section of the insurance policy, except when Contract operations are so commingled with a Contractor's commercial operation that it would not be practical to require this coverage. Employer's liability coverage of at least \$100,000 shall be required, except in states with exclusive or monopolistic funds that do not permit workers' compensation to be written by private carriers.

(2) General Liability.

- (a) The Contracting Officer shall require bodily injury liability insurance coverage written on the comprehensive form of policy of at least \$500,000 per occurrence.
- (b) Property damage liability insurance shall be required only in special circumstances as determined by the agency.
- (3) <u>Automobile liability</u>. The Contracting Officer shall require automobile liability insurance written on the comprehensive form of policy. The policy shall provide for bodily injury and property damage liability covering the operation of all automobiles used in connection with performing the Contract. Policies covering automobiles operated in the United States shall provide coverage of at least \$200,000 per person and \$500,000 per occurrence for bodily injury and \$20,000 per occurrence for property damage. The amount of liability coverage on other policies shall be commensurate with any legal requirements of the locality and sufficient to meet normal and customary claims.
- (4) <u>Aircraft public and passenger liability</u>. When aircraft are used in connection with performing the Contract, the Contracting Officer shall require aircraft public and passenger liability insurance. Coverage shall be at least \$200,000 per person and \$500,000 per occurrence for bodily injury, other than passenger liability, and \$200,000 per occurrence for property damage. Coverage for passenger liability bodily injury shall be at least \$200,000 multiplied by the number of seats or passengers, whichever is greater.

(5) <u>Environmental Liability</u> If this contract includes the transport, treatment, storage, or disposal of hazardous material waste the following coveragd is required.

The Contractor shall ensure the transporter and disposal facility have liability insurance if effect for claims arising out of the death or bodily injury and property damage from hazardous material/waste transport, treatment, storage and disposal, including vehicle liability and legal defense costs in the amount of \$1,000,000.00 as evidenced by a certificate of insurance for General, Automobile, and Environmental Liability Coverage. Proof of this insurance shall be provided to the Contracting Officer.

SC-6. DELETED.

- SC-7. PERFORMANCE OF WORK BY THE CONTRACTOR (APR 1984) (FAR 52.236-1): The Contractor shall perform on the site, and with its own organization, work equivalent to at least fifteen (15) percent of the total amount of work to be performed under the Contract. The percentage may be reduced by a supplemental agreement to this Contract if, during performing the work, the Contractor requests a reduction and the Contracting Officer determines that the reduction would be to the advantage of the Government.
- SC-8. PHYSICAL DATA (APR 1984) (FAR 52.236-4): Data and information furnished or referred to below is for the Contractor's information. The Government will not be responsible for any interpretation of or conclusion drawn from the data or information by the Contractor.
- (a) <u>Physical Conditions:</u> The indications of physical conditions on the drawings and in the specifications are the result of site investigations by test holes shown on the drawings.
- (b) <u>Weather Conditions</u>: Each bidder shall be satisfied before submitting his bid as to the hazards likely to arise from weather conditions. Complete weather records and reports may be obtained from any National Weather Service Office.
- (c) <u>Transportation Facilities</u>: Each bidder, before submitting his bid, shall make an investigation of the conditions of existing public and private roads and of clearances, restrictions, bridge load limits, and other limitations affecting transportation and ingress and egress at the jobsite. The unavailability of transportation facilities or limitations thereon shall not become a basis for claims for damages or extension of time for completion of the work.

SC-9. DELETED.

SC-10. LAYOUT OF WORK (APR 1984) (FAR 52.236-17): The Contractor shall lay out its work from Government-established base lines and bench marks indicated on the drawings and marked in the field by the Government, and shall be responsible for all measurements in connection with the layout. The Contractor shall furnish, at its own expense, all stakes, templates, platforms, equipment, tools, materials, and labor required to lay out any part of the work. The Contractor shall be responsible for executing the work to the lines and grades that may be established or indicated by the Contracting Officer. The Contractor shall also be responsible for maintaining and preserving all stakes and other marks established by the Contractor of through its negligence before their removal is authorized, the Contracting Officer may replace them and deduct the expense of the replacement from any amounts due, or to become due, to the Contractor.

SC-11. AND SC-12. DELETED.

SC-13. DELETED.

- SC-14. EQUIPMENT OWNERSHIP AND OPERATING EXPENSE SCHEDULE (MAR 1995)-(EFARS 52.231-5000
- (a) This clause does not apply to terminations. See 52.249-5000, Basis for Settlement of Proposals and FAR Part 49.
- (b) Allowable cost for construction and marine plant and equipment in sound workable condition owned or controlled and furnished by a contractor or subcontractor at any tier shall be based on actual cost data for each piece of equipment or groups of similar serial and series for which the Government can determine both ownership and operating costs from the contractor's accounting records. When both ownership and operating costs cannot be determined for any piece of equipment or groups of similar serial or series equipment from the contractor's accounting records, costs for that equipment shall be based upon the applicable provisions of EP 1110-1-8, Construction Equipment Ownership and Operating Expense Schedule, Region VIII. Working conditions shall be considered to be average for determining equipment rates using the schedule unless specified otherwise by the contracting officer. For equipment not included in the schedule, rates for comparable pieces of equipment may be used or a rate may be developed using the formula provided in the schedule. For forward pricing, the schedule in effect at the time of negotiations shall apply. For retroactive pricing, the schedule in effect at the time the work was performed shall apply.
- (c) Equipment rental costs are allowable, subject to the provisions of FAR 31.105(d)(ii) and FAR 31.205-36. Rates for equipment rented from an organization under common control, lease-purchase arrangements, and sale-leaseback arrangements, will be determined using the schedule, except that actual rates will be used for equipment leased from an organization under common control that has an established practice of leasing the same or similar equipment to unaffiliated lessees.
- (d) When actual equipment costs are proposed and the total amount of the pricing action exceeds the small purchase threshold, the contracting officer shall request the contractor to submit either certified cost or pricing data, or partial/limited data, as appropriate. The data shall be submitted on Standard Form 1411, Contract Pricing Proposal Cover Sheet.
- (e) Copies of EP1110-1-8 "Construction Equipment Ownership and Operating Expense Schedule" Volume 4 (Montana) and Volume 8 (Washington, Oregon and Idaho) are available from the Superintendent of Documents, P.O. Box 371954, Pittsburg, PA 15250-7954, phone (202) 512-1800 and fax (202) 512-2250, OR from the Government Bookstore in the Jackson Federal Building, Seattle, WA, phone (206) 553-4279. The cost is \$33.00 for each volume. Use the following stock numbers when ordering schedules:

S/N 008-022-00317-7 Volume 4 S/N 008-022-00321-5 Volume 8

SC-15. DELETED.

SC-16. ORDER OF PRECEDENCE: Any inconsistency in this RFP shall be resolved by giving precedence in the following order:

- a. Schedule (excluding specifications)
- b. Representations and other instructions
- c. Contract Clauses
- d. Specifications
- e. Drawings
- f. Other documents, exhibits, and attachments.

In case of any conflict between the RFP criteria and specifications, and the offeror's submittal, the RFP criteria and specifications shall govern.

SC-17 THROUGH SC-19 DELETED.

SC-20. COMPLIANCE CERTIFICATION

The offeror shall certify, in the technical proposal cover letter and by note on each sheet of working drawings, that all items submitted in proposal and final design documents comply with RFP requirements. The requirements specified in the RFP are binding contract requirements. In case of any conflicts after the contract award between the requirements stated in the RFP and the offeror's proposal, the RFP requirements shall govern.

SC-21 AND SC-22 DELETED

SC-23. <u>RECOVERED MATERIALS</u>: The Corps of Engineers encourages all bidders to utilize recovered materials to the maximum extent practicable. The attached APPENDIX R contains procurement guidelines for products containing recovered materials.

APPENDIX R

PART 247 - COMPREHENSIVE PROCUREMENT GUIDELINE FOR PRODUCTS CONTAINING RECOVERED MATERIALS

40 CFR Ch. 1 (7-7-96 Edition)

Subpart B-Item Designations

§ 247.10 Paper and paper products.

Paper and paper products, excluding building and construction paper grades.

- § 247.11 Vehicular products.
- (a) Lubricating oils containing refined oil, including engine lubricating oils, hydraulic fluids, and gear oils, excluding marine and aviation oils.
- (b) Tires. excluding airplane tire
- (e) Reclaimed engine coolants, excluding coolants used in non-vehicular applications.

247.12 Construction products.

- (a) Building insulation product including the following items:
- (1) Loose-fill insulation, including but not limited to cellulose fiber, mineral fibers (fiberglass and rock vermiculite, and perlite;
- (2) Blanket and batt insulation, including but not limited to mineral fibers (fiberglass and rock wool);
- (3) Board (sheathing, roof decking wall panel) insulation, including but not limited to structural fiber and laminated paperboard products perlite composite board, polyurethane, polyisocyanurate, polystyrene, phenolics, and composites; and
- (4) Spray-in-place insulation, including but not limited to foam-in polyurethane and polyisocyanurate and spray-on cellulose.
- (b) Structural fiberboard and laminated paperboard products for applications other than building insulation, including building board, sheathing shingle backer, sound deadening roof insulating board, insulating board, acoustical and non-acoustical ceiling tile, acoustical and non-acoustical lay-in panels underlayments, and roof overlay (coverboard).
- (c) Cement and concrete, including concrete products such as pipe block, containing coal fly as ground granulated blast furnace (GGBF) slag.
- (d) Carpet made of polyester fiber use in low- and medium-wear applications.
- (e) Floor tiles and patio block containing recovered rubber or plastic.

§247.13 Transportation products.

Traffic barricades and traffic used in controlling or restricting vehicular traffic.

§ 247.14 Park and recreation products

Playground surfaces and running tracks containing recovered rubber or plastic.

247.15 Landscaping products.

- (a) Hydraulic mulch products containing recovered paper or recovered wood used for hydroseeding and over-spray for straw mulch in landscaping, erosion control, and soil reclamation.
- (b) Compost made from yard trimmings, leaves, and/or grass clippings for use in landscaping, seeding of or other plants on roadsides and embankments, as a nutritious under trees and shrubs, and in erosion control and soil reclamation.

§ 247.16 Non-paper office product.

- (a) Office recycling containers and office waste receptacles.
- (b) Plastic desktop accessories.
- (c) Toner cartridges.
- (d) Binders.
- (e) Plastic trash bags.

END OF SECTION

General Decision Number WA990001 Superseded General Decision No. WA980001

State: Washington

Construction Type:

DREDGING HEAVY HIGHWAY

County(ies): STATEWIDE

HEAVY AND HIGHWAY AND DREDGING CONSTRUCTION PROJECTS (Excludes D. O. E. Hanford Site in Benton and Franklin Counties)

| Modification Number | Publication Date |
|---------------------|------------------|
| 0 | 03/12/1999 |
| 1 | 03/19/1999 |
| 2 | 05/07/1999 |
| 3 | 05/21/1999 |
| 4 | 06/04/1999 |
| 5 | 06/18/1999 |
| 6 | 06/25/1999 |
| 7 | 07/02/1999 |
| 8 | 07/09/1999 |
| 9 | 07/30/1999 |
| 10 | 09/03/1999 |

COUNTY(ies): STATEWIDE

CARP0001W 06/01/1999

Rates Fringes
COLUMBIA RIVER AREA - ADAMS, BENTON, COLUMBIA, DOUGLAS (EAST OF
THE 120TH MERIDIAN), FERRY, FRANKLIN, GRANT, OKANOGAN (EAST OF
THE 120TH MERIDIAN) AND WALLA WALLA COUNTIES

CARPENTERS:

| GROUP 1: | 22. 23 | 5. 60 |
|----------|--------|-------|
| GROUP 2: | 23. 34 | 5. 60 |
| GROUP 3: | 22. 50 | 5. 60 |
| GROUP 4: | 22. 23 | 5. 60 |
| GROUP 5: | 55. 13 | 5. 60 |
| GROUP 6: | 26. 33 | 5. 60 |

SPOKANE AREA: ASOTIN, GARFIELD, LINCOLN, PEND OREILLE, SPOKANE, STEVENS AND WHITMAN COUNTIES

CARPENTERS:

| GROUP 1: | 21. 56 | 5.60 |
|----------|--------|-------|
| GROUP 2: | 22.66 | 5.60 |
| GROUP 3: | 21.82 | 5.60 |
| GROUP 4: | 21. 56 | 5.60 |
| GROUP 5: | 53. 46 | 5.60 |
| GROUP 6: | 25. 65 | 5. 60 |

CARPENTERS CLASSIFICATIONS

GROUP 1: Carpenter; Burner-Welder; Rigger and Signaler; Insulators (all types), Acoustical, Drywall and Metal Studs, Metal Panels and Partitions; Floor Layer, Sander, Finisher and Astro Turf; Layout Carpenters; Form Builder; Rough Framer; Outside or Inside Finisher, including doors, windows, and jams; Sawfiler; Shingler (wood, composition) Solar, Fiberglass, Aluminum or Metal; Scaffold Erecting and Dismantling; Stationary Saw-Off Bearer; Wire, Wood and Metal Lather Applicator

GROUP 2: Millwright, machine erector

GROUP 3: Piledriver - includes driving, pulling, cutting, placing collars, setting, welding, or creosote treated material, on all piling

GROUP 4: Bridge, dock and wharf carpenters

GROUP 5: Divers

GROUP 6: Divers Tender

DEPTH PAYY FOR DIVERS:

Each foot over 50-100 feet \$1.00
Each foot over 100-175 feet 2.25
Each foot over 175-250 feet 5.50

HAZMAT PROJECTS

Anyone working on a HAZMAT job (task), where HAZMAT certification is required, shall be compensated at a premium, in addition to the classification working in as follows:

LEVEL D + \$.25 per hour - This is the lowest level of protection. No respirator is used and skin protection is minimal.

LEVEL C + \$.50 per hour - This level uses an air purifying respirator or additional protective clothing.

LEVEL B + \$.75 per hour - Uses same respirator protection as Level A. Supplied air line is provided in conjunction with a chemical "splash suit".

LEVEL A +\$1.00 per hour - This level utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line.

CARP00030 06/01/1999

Rates Fringes SOUTHWEST WASHINGTON: CLARK, COWLITZ, KLICKITAT, LEWIS (Piledriver only), PACIFIC (South of a straight line made by extending the north boundary line of Wahkiakum County west to

DACA67-99-R-0049

Willapa Bay to the Pacific Ocean), SKAMANIA AND WAHKIAKUM COUNTIES and INCLUDES THE ENTIRE PENINSULA WEST OF WILLAPA BAY

SEE ZONE DESCRIPTION FOR CITIES BASE POINTS

ZONE 1:

| CARPENTERS; | ACOUSTICAL | 25. 19 | 6. 42 |
|-------------|------------|--------|-------|
| DRYWALL | | 25. 19 | 6. 42 |

FLOOR LAYERS & FLOOR FINISHERS

(the laying of all hardwood floors nailed and mastic set, parquet and wood-type tiles, and block floors, the sanding and finishing of floors, the preparation of old and new floors when the materials mentioned above are to be installed); INSULATORS (fiberglass and similar irritating

materils 25.34 6.67
MILLWRIGHTS 25.69 6.67
PILEDRIVERS 25.69 6.67
DIVERS 57.90 6.67

27.57

6.67

DEPTH PAY

DIVERS TENDERS

50 TO 100 FEET \$1.00 PER FOOT OVER 50 FEET 100 TO 150 FEET 1.50 PER FOOT OVER 100 FEET 150 TO 200 FEET 2.00 PER FOOT OVER 150 FEET

Zone Differential (Add up Zone 1 rates): Zone 2 - 80.85

Zone 3 - 1.25 Zone 4 - 1.70 Zone 5 - 2.00 Zone 6 - 3.00

BASEPOINTS: ASTORIA, LONGVIEW, PORTLAND, THE DALLES, AND VANCOUVER, (NOTE: All dispatches for Washington State Counties: Cowlitz, Wahkiakum and Pacific shall be from Longview Local #1707 and mileage shall be computed from that point.)

- ZONE 1: Projects located within 30 miles of the respective city hall of the above mentioned cities
- ZONE 2: Projects located more than 30 miles and less than 40 miles of the respective city of the above mentioned cities
- ZONE 3: Projects located more than 40 miles and less than 50 miles of the respective city of the above mentioned cities
- ZONE 4: Projects located more than 50 miles and less than 60 miles of the respective city of the above mentioned cities.
- ZONE 5: Projects located more than 60 miles and less than 70 miles of the respective city of the above mentioned cities
- ZONE 6: Projects located more than 70 miles of the respected

CARP0770D 06/01/1999

Rates Fringes WESTERN WASHINGTON: CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS (excludes piledrivers only), MASON, PACIFIC (North of a straight line made by extending the north boundary line of Wahkiakum County west to the Pacific Ocean), PIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON AND WHATCOM COUNTIES

| CARPENTERS AND DRYWALL APPLICATORS | 25. 50 | 6. 37 |
|------------------------------------|---------------|-------|
| CARPENTERS ON CREOSOTE MATERIAL | 25. 60 | 6. 37 |
| SAWFILERS, STATIONARY POWER SAW | | |
| OPERATORS, FLOOR FINISHER, FLOOR | | |
| LAYER, SHINGLER, FLOOR SANDER | | |
| OPERATOR AND OPERATORS OF OTHER | | |
| STATIONARY WOOD WORKING TOOLS | 25.63 | 6.37 |
| MILLWRIGHT AND MACHINE ERECTORS | 26. 50 | 6.37 |
| ACOUSTICAL WOKRERS | 25.66 | 6.37 |
| PILEDRIVER, DRIVING, PULLING, | | |
| CUTTING, PLACING COLLARS, | | |
| SETTING, WELDING OR CRESOTE | | |
| TREATED MATERIAL, ALL PILING | 25.70 | 6.37 |
| PILEDRIVER, BRIDGE DOCK & | | |
| WHARF CARPENTERS | 25. 50 | 6.37 |
| DIVERS | 62.97 | 6.37 |
| DIVERS TENDER | 28. 01 | 6.37 |

(HOURLY ZONE PAY APPLICABLE TO ALL CLASSIFICATIONS EXCEPT MILLWRIGHT AND PILEDRIVER)

Hourly Zone Pay shall be paid on jobs located outside of the free zone computed from the city center of the following listed cities:

| Seattle | Ol ympi a | Bellingham |
|--------------------|---------------------|--------------|
| Auburn | Bremerton | Anacortes |
| Renton | Shelton | Yaki ma |
| Aberdeen- Hoqui am | Tacoma | Wenatchee |
| Ellensburg | Everett | Port Angeles |
| Centralia | Mount Vernon | Sunnys i de |
| Chelan | Pt. Townsend | |

Zone Pay 0 - 25 radius miles Free 25-35 radius miles \$1.00/hour 35-45 radius miles \$1.15/hour 45-55 radius miles \$1.35/hour Over 55 radius miles \$1.55/hour

(HOURLY ZONE PAY - MILLWRIGHT AND PILEDRIVER ONLY)

Hourly Zone Pay shall be computed from Seattle Union Hall, Tacoma City center, and Everett City center

Zone Pay

0 -25 radius miles Free

25-45 radius miles \$.70/hour Over 45 radius miles \$1.50/hour

CENTRAL WASHINGTON: CHELAN, DOUGLAS (WEST OF THE 120TH MERIDIAN), KITTITAS, OKANOGAN (WEST OF THE 120TH MERIDIAN) AND YAKIMA COUNTIES

| CARPENTERS AND DRYWALL APPLICATORS | 20.47 | 6.37 |
|------------------------------------|--------|-------|
| CARPENTERS ON CREOSOTED MATERIAL | 20.57 | 6.37 |
| SAWFILERS, STATIONARY POWER S37 | | |
| OPERATORS, FLOOR FINISHER, | | |
| FLOOR LAYER, SHINGLERS, FLOOR | | |
| SANDER OPERATORS | 20.60 | 6.37 |
| MILLWRIGHT AND MACHINE ERECTORS | 26. 50 | 6. 37 |
| PILEDRIVER, DRIVING, PULLING, | | |
| CUTTING, PLACING COLLARS, | | |
| SETTING, WELDING OR CRESOTE | | |
| TREATED MATERIAL, ALL PILING | 25. 70 | 6. 37 |
| PILEDRIVER, BRIDGE DOCK AND | | |
| WHARF CARPENTERS | 25. 50 | 6.37 |
| DIVERS | 62. 97 | 6. 37 |
| DIVERS TENDER | 28. 01 | 6.37 |

(HOURLY ZONE PAY APPLICABLE TO ALL CLASSIFICATIONS EXCEPT MILLWRIGHT AND PILEDRIVER)

Hourly Zone Pay shall be paid on jobs located outside

of the free zone computed from the city center of the following listed cities:

| Seattle | Ol ympi a | Bellingham |
|--------------------|---------------------|--------------|
| Auburn | Bremerton | Anacortes |
| Renton | Shelton | Yaki ma |
| Aberdeen- Hoqui am | Tacoma | Wenatchee |
| Ellensburg | Everett | Port Angeles |
| Centralia | Mount Vernon | Sunnys i de |
| Chalan | Dt Townsond | • |

Chelan Pt. Townsend

Zone Pay

0 - 25 radius miles Free 25-35 radius miles \$1.00/hour 35-45 radius miles \$1.15/hour 45-55 radius miles \$1.35/hour Over 55 radius miles \$1.55/hour

(HOURLY ZONE PAY - MILLWRIGHT AND PILEDRIVER ONLY)

Hourly Zone Pay shall be computed from Seattle Union Hall, Tacoma City center, and Everett City center

Zone Pay 0 -25 radius miles

Free

25-45 radius miles \$.70/hour Over 45 radius miles \$1.50/hour

| Over 45 radius mil | | |
|---|------------------------------|-----------|
| ELEC0046A 06/01/1997 | | |
| | Rates | Fringes |
| CALLAM, JEFFERSON, KING AND KI | TSAP COUNTIES | J |
| ELECTRICIANS | 25. 81 | 7. 255+39 |
| CABLE SPLICERS | 28. 39 | |
| ELEC0048C 07/01/1999 | | |
| | Rates | Fringes |
| CLARK, KLICKITAT AND SKAMANIA | COUNTIES | |
| ELECTRICIANS | 27. 30 | 9.65+3% |
| CABLE SPLICERS | 27.55 | 9.65+3% |
| ELECO073A 01/01/1999 ADAMS, FERRY, LINCOLN, PEND OR COUNTIES | Rates EILLE, SPOKANE, STE | |
| ELECTRICIANS | 22.77 | 7. 23+3% |
| CABLE SPLICERS | 23. 17 | |
| ELEC0076B 07/01/1999 | | |
| | Rates | Fringes |
| GRAYS HARBOR, LEWIS, MASON, PA COUNTIES | CIFIC, PIERCE, AND | THURSTON |
| ELECTRICIANS | 25. 70 | 8. 47+3% |
| CABLE SPLICERS | 28. 27 | 8. 47+3% |
| ELEC0077C 02/01/1999 | | |
| | Rates | Fringes |
| TIME CONCERNICETON | | 3 |

ELEC0112E 06/01/1998

LINEMEN, POLE SPRAYERS,

HEAVY LINE EQUIPMENT MAN

POWDERMEN, JACKHAMMERMEN

LINE CONSTRUCTION

LINE EQUIPMENT MEN

CABLE SPLICERS

GROUNDMEN
TREE TRIMMER

Rates Fringes ASOTIN, BENTON, COLUMBIA, FRANKLIN, GARFIELD, KITTITAS, WALLA WALLA, YAKIMA COUNTIES

DACA67-99-R-0049

28. 55

6. 50+3. 5%

 25. 75
 6. 50+3. 5%

 22. 19
 5. 00+3. 5%

 19. 37
 5. 00+3. 5%

 18. 19
 5. 00+3. 5%

 19. 39
 5. 00+3. 5%

| ELECTRICIANS | 26. 20 | 6. 83+3% |
|---------------------------------|----------------|----------|
| CABLE SPLICERS | 27. 51 | 6.83+3% |
| ELEC0191C 06/01/1998 | | |
| | Rates | Fringes |
| ISLAND, SAN JUAN, SNOHOMISH, SE | | _ |
| ELECTRICIANS | 25. 34 | 6. 63+3% |
| CABLE SPLICERS | 27.87 | 6.63+3% |
| | | |
| ELEC0191D 06/01/1998 | | |
| | Rates | Fringes |
| CHELAN, DOUGLAS, GRANT AND OKAN | IOGAN COUNTIES | |
| ELECTRICIANS | 23. 19 | 6. 63+3% |
| CABLE SPLICERS | 25. 51 | |
| | | |
| * ELEC0970A 06/01/1999 | | |
| | Rates | Fringes |
| COWLITZ AND WAHKIAKUM COUNTIES | | _ |
| ELECTRICIANS | 25. 55 | 7. 50+3% |
| CABLE SPLICERS | | 7. 50+3% |
| | | |

ENGI0302E 06/01/1999

Rates Fringes CHELAN (WEST OF THE 120TH MERIDIAN), CLALLAM, DOUGLAS (WEST OF THE 120TH MERIDIAN), GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, KITTITAS, MASON, OKANOGAN (WEST OF THE 120TH MERIDIAN), SAN JUAN, SKAGIT, SNOHOMISH, WHATCOM AND YAKIMA (WEST OF THE 120TH MERIDIAN) COUNTIES

PROJECTS

CATEGORY A PROJECTS (excludes Category B projects, as show below)

POWER EQUIPMENT OPERATORS:

| Zone 1 | (0-25 radius miles): | | |
|--------|----------------------|--------------|-------|
| GROUP | 1AAA | 27. 51 | 7. 38 |
| GROUP | 1AA | 27. 01 | 7. 38 |
| GROUP | 1A | 26.51 | 7. 38 |
| GROUP | 1 | 26. 01 | 7. 38 |
| GROUP | 2 | 25. 57 | 7. 38 |
| GROUP | 3 | 25. 21 | 7. 38 |
| GROUP | 4 | 23. 11 | 7. 38 |

Zone 2 (26-45 radius miles) - Add \$.70 to Zone 1 rates Zone 3 (Over 45 radius miles) - Add \$1.00 to Zone 1 rates

BASEPOINTS: Bellingham, Mount Vernon, Kent, Port Angeles, Port Townsend, Aberdeen, Shelton, Bremerton, Wenatchee, Yakima,

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1AAA - Cranes-over 300 tons or 300 ft. of boom (including job with attachments)

GROUP 1AA - Cranes - 200 tons to 300 tons or 250 ft. of boom (including jib and attachments); Tower crane over 175 ft. in height, base to boom

GROUP 1A - Cranes - 100 tons thru 199 tons or 150' of boom (including jib with attachments); Crane-overhead, bridge type, 100 tons and over; Tower crane up to 175 ft. in height base to boom, Loader-overhead, 8 yards and over; Shovel, excavator, backhoes-6 yards and over with attachments

GROUP 1 - Cableway; Cranes-45 tons thru 99 tons, under 150 ft. of boom (including jib with attachments); Crane-overhead, bridge type, 45 tons thru 99 tons; Shovel, excavator, backhoes over 3 yards and under 6 yards; Hard tail end dump articulating off-road equipment 45 yards and over; Loader-overhead, 6 yards to, but not including 8 yards; Mucking machine, mole, tunnel, drill and/or shield; Quad 9, HD 41, d-10; Remote control operator on rubber tired earth moving equipment; Rollagon; Scrapers-self-propelled-45 yards and over; Slipform pavers; Transporters, all track or truck type

GROUP 2 - Barrier machine (zipper); Barch Plant opeatorconcrete; Bump cutter; Cranes-20 tons thru 44 tons with

attachments; Cranes-overheads, bridge type-20 tons through 44 tons; Chipper; Concrete pump-truck mount with boom attachment; Crusher; Deck Engineer/Deck Winches (power); Drilling machine; Excavator, shovel backhoe-3 yards and under; Finishing machine Bidwell, Gamaco and similar equipment; Guardrail punch; Horizontal/directional drill operator; Loaders, overhead under 6 yds.; Loaders-plant feed; Locomotives-all; Mechanics-all; Mixers-asphalt plant; Motor patrol graders-finishing; Pildriver (other than crane mount); Roto-mill, roto-grinder; Screedman, Spreader, Topside Operator-Blaw Knox, Cedar Rapids, Jaeger, Caterpillar, Barbar Green; Scraper-self-propelled, hard tail end dump, articulating off-road equipment-under 45 yards; Subgrader trimmer; Tractors, backhoes-over 75 hp; Transfer material service machine-shuttle buggy, blow knox, roadtec; Truck crane oiler/driver-100 tons and over; Truck mount portable conveyor; Yo Yo Pay Dozer

GROUP 3 - Conveyors; Cranes-thru 19 tons with attachments; Cranes-A-frame over 10 tons; Drill oilers-auger type, truck or crane mount; Dozers D9 and under; Forklifts-3000 lbs and over with attachments; horizontal/directional drill locator; Outside hoists-(elevators and manlifts), air tuggers, strao tower bucket elevators; Hydralifts/boom truck-over 10 tons; Loader-elevating type belt; Motor Patrol Grader-non-finishing; Plant Oiler-asphalt, crusher; Pumps-concrete; Roller, plant mix or multi-lift

materials; Saws-concrete; Scrapers-concrete and carryall; Service engineers-equipment; Trenching machines; Truck crane oiler/driver-under 100 tons Tractors, backhoes-under 75 hp

GROUP 4 - Assistant Engineer; Bobcat; Brooms; Compressor; Concrete Finish Machine-laser screed; Cranes-A-frame-10 tons and under; Elevator and manlift-permanent and shaft type; Forklifts-under 3000 lbs. with attachments; Gradechecker, stakehop; Hydralifts, boom trucks-10 tons and under; Oil distributors, blower distribution and mulch seeding operator; Pavement breaker; Post Hole Digger-mechanical; Power Plant; Pumps-water; Rigger and Bellman; Roller-other than plant mix; Wheel Tractors, farmall type; Shot crete/gunite equipment operator

CATEGORY B PROJECTS - 95% of the basic hourly rate for each group plus full fringe benefits applicable to Category A projects shall apply to the following projects. Reduced rates may be paid on the following:

- 1. Projects involving work on structures such as buildings and structures whose total value is less than \$1.5 million excluding mechanical, electrical, and utility portions of the contract.
- 2. Projects of less than \$1 million where no building is involved. Surfacing and paving included, but utilities excluded.
 - 3. Marine projects (docks, wharfs, etc.) less than \$150,000.

WORK PERFORMED ON HYDRAULIC DREDGES:

| Total Project Cost \$300 | ,000 and over | |
|--------------------------|---------------|-------|
| GROUP 1 | 24.75 | 7.38 |
| GROUP 2 | 24. 85 | 7. 38 |
| GROUP 3 | 25. 19 | 7. 38 |
| GROUP 4 | 25. 24 | 7.38 |
| GROUP 5 | 26. 63 | 7. 38 |
| GROUP 6 | 24. 75 | 7. 38 |

GROUP 1: Assistant Mate (Deckhand)

GROUP 2: Oiler

GROUP 3: Assistant Engineer (Electric, Diesel, Steam or Booster Pump); Mates and Boatmen

GROUP 4: Craneman, Engineer Welder

GROUP 5: Leverman, Hydraulic

GROUP 6: Maintenance

| Total Project cost under | \$300, 000 | |
|--------------------------|------------|-------|
| GROUP 1 | 23. 50 | 7. 38 |
| GROUP 2 | 23.60 | 7.38 |
| GROUP 3 | 23.92 | 7.38 |
| GROUP 4 | 23.96 | 7.38 |
| GROUP 5 | 25. 29 | 7.38 |
| GROUP 6 | 23. 50 | 7.38 |

GROUP 1: Assistant Mate (Deckhand)

GROUP 2: Oiler

GROUP 3: Assistant Engineer (Electric, Diesel, Steam,

or Booster Pump); Mates and Boatmen

- GROUP 4: Craneman, Engineer Welder GROUP 5: Leverman, Hydraulic
- GROUP 6: Maintenance

HEAVY WAGE RATES (CATEGORY A) APPLIES TO CLAM SHELL DREDGE, HOE AND DIPPER, SHOVELS AND SHOVEL ATTACHMENTS, CRANES AND RULLDOZERS.

HANDLING OF HAZAARDOUS WASTE MATERIALS: Personnel in all craft classifications subject to working inside a federally designated hazardous perimeter shall be eligible for compensation in accordance with the following group schedule relative to the level of hazardous waste as outlined in the specific hazardous waste project site safety plan.

- H-1 Base wage rate when on a hazardous waste site when not outfitted with protective clothing
- H-2 Class "C" Suit Base wage rate plus \$.25 per hour. H-3 Class "B" Suit Base wage rate plus \$.50 per hour.
- H-4 Class "A" Suit Base wage rate plus \$.75 per hour.

ENGI0370C 06/01/1999

Rates Fringes ADAMS, ASOTIN, BENTON, CHELAN (EAST OF THE 120TH MERIDIAN), COLUMBIA, DOUGLAS (EAST OF THE 120TH MERIDIAN), FERRY, FRANKLIN, GARFIELD, GRANT, LINCOLN, OKANOGAN (EAST OF THE 120TH MERIDIAN), PEND OREILLE, SPOKANE, STEVENS, WALLA WALLA, WHITMAN AND YAKIMA (EAST OF THE 120TH MERIDIAN) COUNTIES

ZONE 1:

| POWER EQUIPMENT OPERATORS: | | |
|----------------------------|--------------|------|
| GROUP 1A | 20. 51 | 5.45 |
| GROUP 1 | 21.06 | 5.45 |
| GROUP 2 | 21. 38 | 5.45 |
| GROUP 3 | 21. 99 | 5.45 |
| GROUP 4 | 22. 15 | 5.45 |
| GROUP 5 | 22.31 | 5.45 |
| GROUP 6 | 22. 59 | 5.45 |
| GROUP 7 | 22.86 | 5.45 |
| GROUP 8 | 23. 96 | 5.45 |

ZONE DIFFERENTIAL (Add to Zone 1 rate): Zone 2 - \$2.00

- Zone 1: Within 45 mile radius of Spokane, Moses Lake, Pasco, Washington; Lewiston, Idaho
- Zone 2: Outside 45 mile radius of Spokane, Moses Lake, Pasco, Washington; Lewiston, Idaho

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1A: Boat Operator; Crush Feeder; Oiler; Steam Cleaner

GROUP 1: Bit Grinders; Bolt Threading Machine; Compressors

DACA67-99-R-0049

(under 2000 CFM, gas, diesel, or electric power); Deck Hand; Drillers Helper (Assist driller in making drill rod connections, service drill engine and air compressor, repair drill rig and drill tools, drive drill support truck to and on the job site, remove drill cuttings from around bore hole and inspect drill rig while in operation); Fireman & Heater Tender; Grade Checker; Hydro-seeder, Mulcher, Nozzleman; Oiler Driver, & Cable Tender, Mucking Machine; Pumpman; Rollers, all types on subgrade, including seal and chip coatings (farm type, Case, John Deere & similar, or Compacting Vibrator), except when pulled by Dozer with operable blade; Welding Machine

GROUP 2: A-frame Truck (single drum); Assistant Refrigeration Plant (under 1000 ton); Assistant Plant Operator, Fireman or Pugmixer (asphalt); Bagley or Stationary Scraper; Belt Finishing Machine; Blower Operator (cement); Cement Hog; Compressor (2000 CFM or over, 2 or more, gas diesel or electric power); Concrete Saw (multiple cut); Distributor Leverman; Ditch Witch or similar; Elevator Hoisting Materials; Dope Pots (power agitated); Fork Lift or Lumber Stacker, hydra-lift & similar; Gin Trucks (pipeline); Hoist, single drum, Loaders (bucket elevators and conveyors); Longitudinal Float; Mixer (portable-concrete); Pavement Breaker, Hydra-Hammer & similar; Power Broom, Railroad Ballast Regulation Operator (self-propelled); Railroad Power Tamper Operator (self-propelled); Railroad Tamper Jack Operator (self-propelled; Spray Curing Machine (concrete); Spreader Box (self-propelled); Straddle Buggy (Ross & similar on construction job only); Tractor (Farm type R/T with attachment, except Backhoe); Tugger Operator

GROUP 3: A-frame Truck (2 or more drums); Assistant Refrigeration Plant & Chiller Operator (over 1000 ton);

Backfillers (Cleveland & similar); Batch Plant & Wet Mix Operator, single unit (concrete); Belt-Crete Conveyors with power pack or similar; Belt Loader (Kocal or similar); Bending Machine; Bob Cat; Boring Machine (earth); Boring Machine (rock under 8" bit) (Quarry Master, Joy or similar); Bump Cutter (Wayne, Saginau or similar); Canal Lining Machine (concrete); Chipper (without crane); Cleaning & Doping Machine (pipeline); Deck Engineer; Elevating Belt-type Loader (Euclid, Barber Green & similar); Elevating Grader-type Loader (Dumor, Adams or similar); Generator Plant Engineers (diesel or electric); Gunnite Combination Mixer & Compressor; Locomotive Engineer; Mixermobile; Mucking Machine; Posthole Auger or Punch; Punp (grout or jet); Soil Stabilizer (P & H or similar); Spreader Machine; Tractor (to D-6 or equivalent) and Traxcavator; Traverse Finish Machine; Turnhead Operator

GROUP 4: Concrete Pumps (squeeze-crete, flow-crete, pump-crete, Whitman & similar); Curb Extruder (asphalt or concrete); Drills (churn, core, calyx or diamond)(operate drilling machine, drive or transport drill rig to and on job site and weld well casing); Equipment Serviceman; Greaser & Oiler; Hoist (2 or more drums or Tower Hoist); Loaders (overhead & front-end, under 4 yds. R/T); Refrigeration Plant Engineer (under

1000 ton); Rubber-tired Skidders (R/T with or without attachments); Surface Heater & Plant Machine; Trenching Machines (under 7 ft. depth capacity); Turnhead (with re-screening); Vacuum Drill (reverse circulation drill under 8" bit)

GROUP 5: Backhoe (under 45,000 gw); Backhoe & Hoe Ram (under 3/4 yd.); Carrydeck & Boom Truck (under 25 tons); Cranes (25 tons & under), all attachments including clamshell, dragline; Derricks & Stifflegs (under 65 tons); Drilling Equipment(8" bit & over) (Robbins, reverse circulation & similar)(operates drilling machine, drive or transport drill rig to and on job site and weld well casing); Hoe Ram, Piledriving Engineers; Paving (dual drum); Railroad Track Liner Operaotr (self-propelled); Refrigeration Plant Engineer (1000 tons & over); Signalman (Whirleys, Highline Hammerheads or similar)

GROUP 6: Asphalt Plant Operator; Automatic Subgrader (Ditches & Trimmers) (Autograde, ABC, R.A. Hansen & similar on grade wire); Backhoe (45,000 gw and over to 110,000 gw); Backhoes & Hoe Ram (3/4 yd. to 3 yd.); Batch Plant (over 4 units); Batch & Wet Mix Operator (multiple units, 2 & incl. 4); Blade Operator (motor patrol & attachments, Athey & Huber); Boom Cats (side); Cable Controller (dispatcher); Clamshell Operator (under 3 yds.); Compactor (self-propelled with blade); Concrete Pump Boom Truck; Concrete Slip Form Paver; Cranes (over 25 tons, to and including 45 tons), all attachments including clamshell, dragline; Crusher, Grizzle & Screening Plant Operator; Dozer, 834 R/T & similar; Draglines (under 3 yds.); Drill Doctor; H. D. Mechanic; H. D. Welder; Loader Operator (front-end & overhead, 4 yds. incl. 8 yds.); Multiple Dozer Units with single blade; Paving Machine (asphalt and concrete); Quad-Track or similar equipment; Rollerman (finishing asphalt pavement); Roto Mill (pavement grinder); Scrapers, all, rubber-tired; Screed

Operator; Shovel(under 3 yds.); Tractors (D-6 & equilvalent & over); Trenching Machines (7 ft. depth & over); Tug Boat Operator Vactor guzzler, super sucker

GROUP 7: Backhoe (over 110,000 gw); Backhoes & Hoe Ram (3 yds & over); Blade (finish & bluetop) Automatic, CMI, ABC, Finish Athey & Huber & similar when used as automatic; Cableway Operators; Concrete Cleaning/Decontamination machine operator; Cranes (over 45 tons to but not including 85 tons), all attachments including clamshell and dragine; Derricks & Stiffleys (65 tons & over); Elevating Belt (Holland type); Heavy equipment robotics operator; Loader (360 degrees revolving Koehring Scooper or similar); Loaders (overhead & front-end, over 8 yds. to 10 yds.); Rubber-tired Scrapers (multiple engine with three or more scrapers); Shovels (3 yds. & over); Whirleys & Hammerheads, ALL

GROUP 8: Cranes (85 tons and over, and all climbing, overhead, rail and tower), all attachments including clamshell, dragline; Loaders (overhead and front-end, 10 yards and over); Helicopter Pilot

BOOM PAY: (All Cranes, Including Tower)

180' to 250' \$.30 over scale Over 250' \$.60 over scale

NOTE: In computing the length of the boom on Tower Cranes, they shall be measured from the base of the Tower to the point of the boom

HAZMAT: Anyone working on HAZMAT jobs, working with supplied air shall receive \$1.00 an hour above classification.

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ENGI0370G 06/01/1999

Rates Fringes
ADAMS, ASOTIN, BENTON, CHELAN (EAST OF THE 120TH MERIDIAN),
COLUMBIA, DOUGLAS (EAST OF THE 120TH MERIDIAN), FERRY, FRANKLIN,
GARFIELD, GRANT, LINCOLN, OKANOGAN (EAST OF THE 120TH MERIDIAN),
PEND OREILLE, SPOKANE, STEVENS, WALLA WALLA, WHITMAN AND YAKIMA
(EAST OF THE 120TH MERIDIAN) COUNTIES

WORK PERFORMED ON HYDRAULIC DREDGES

| GROUP 1: | 23. 98 | 5. 45 |
|----------|--------|-------|
| GROUP 2: | 24. 35 | 5. 45 |
| GROUP 3: | 24. 38 | 5.45 |
| GROUP 4: | 24.77 | 5.45 |
| GROUP 5: | 23.88 | 5.45 |

GROUP 1: Assistant Mate (Deckhand) and Oiler

GROUP 2: Assistant Engineer (Electric, Diesel, Steam, or

Booster Pump); Mates and Boatmen

GROUP 3: Engineer Welder

GROUP 4: Leverman, Hydraulic

GROUP 5: Maintenance

HEAVY WAGE RATES APPLIES TO CLAM SHELL DREDGE, HOE AND DIPPER, SHOVELS AND SHOVEL ATTACHMENTS, CRANES AND BULLDOZERS.

ENGIO612A 06/01/1999

Rates Fringes
LEWIS, PIERCE, PACIFIC (THAT PORTION WHICH LIES NORTH OF A
PARALLEL LINE EXTENDED WEST FROM THE NORTHERN BOUNDARY OF
WAHKAIKUM COUNTY TO THE SEA IN THE STATE OF WASHINGTON) AND
THURSTON COUNTIES

PROJECTS:

CATEGORY A PROJECTS (excludes Category B projects, as shown below)

POWER EQUIPMENT OPERATORS:

| ZONE 1 | (0-25 radius miles): | | |
|--------|----------------------|--------|-------|
| GROUP | 1AAA | 27. 51 | 7. 38 |
| GROUP | 1AA | 27. 01 | 7. 38 |
| GROUP | 1A | 26. 51 | 7. 38 |
| GROUP | 1 | 26. 01 | 7. 38 |
| GROUP | 2 | 25. 57 | 7. 38 |
| GROUP | 3 | 25. 21 | 7. 38 |

DACA67-99-R-0049

ZONE 2 (26-45 radius miles) - Add \$.70 to Zone 1 rates ZONE 3 (Over 45 radius miles) - Add \$1.00 to Zone 1 rates

BASEPOINTS: Tacoma, Olympia, and Centralia

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1AAA - Cranes-300 tons, or 300 ft of boom (including jib with attachments)

GROUP 1AA - Cranes 200 tons to 300 tons, or 250 ft of boom (including jib with attachments); Tower crane over 175 ft in height, base to boom

GROUP 1A - Crane 100 tons thru 199 tons, or 150 of boom (including jib with attachments); Crane-overhead, bridge type, 100 tons and over; Shovel, excavator, backhoes-6 yds and over with attachments

GROUP 1 - Cableways; Cranes-45 tons thru 99 tons, under 150 ft of boom (including jib with attachments); Crane-overhead, bridge type - 45 tons thru 99 tons; Excavator, shovel, backhoes over 3 yards and under 6 yards; hard tail end dump articulating off-road equipment 45 yards and over; loader-overhead 6 yards to, but not including 8 yards; Mucking machine, mole, tunnel, drill and/or shield; Quad 9, HD 41, D-10; Remote control operator on rubber tired earth moving equipment; Rollagon; Scrapers-self-propelled-45 yds and over; Slipform pavers; Transporters-all track or truck type

GROUP 2 - Barrier machine (zipper); Batch Plant Operator-concrete; Bump cutter; Cranes-20 tons through 44 tons with

attachments; Crane-overhead, bridge type-20 tons thru 44 tons; Chipper, Concrete Pump-truck mounted with boom attachment; Crushers; Deck Engineer/Deck Winches (power); Drilling machine; Excavator, shovel, backhoe-3yards and under; Finishing machine, Bidwell, Gamaco and similar equipment; Guardrail punch; Horizontal/directional drill operator; Loaders, overhead under 6 yds.; Loaders, plant feed; Locomotive-all; Mechanics-all; Mixers, asphalt plant; Motor patrol graders-finishing; Piledriver (other than crane mount); Roto-mill, roto grinder; screedman, spreader, topside operator-Blaw Knox, Cedar Rapids, Jaeger, Caterpillar, Barbar Green; Scraper-self propelled, hard tail end dump, articulating off-road equipment under 45 yds.; Subgrader trimmer; Tractors, backhoes over 75 hp.; Transfer material service machine-shuttle buggy, Blaw Knox-Roadtec; Truck Crane Oiler/driver-100 tons and over, Truck Mount Portable Conveyor; Yo Yo Pay dozer.

GROUP 3 - Conveyors; Cranes-thru 19 tons with attachments; Cranes-A-frame over 10 tons; Drill Oilers-Auger type, truck or crane mount; Dozers-D-9 and under; Forklifts-3000 lbs. and over with attachments; Horizontal/directional drill locator;

Outside hoists-(elevators and manlifts), air tuggers, strato tower bucket elevators; Hydralifts/Boom Trucks-over 10 tons; Loaders-elevating type, belt; Motor patrol grader-nonfinishing; Plant Oiler-Asphalt, Crusher; Pumps, Concrete; Roller, plant mix or multi-lift materials; Saws-concrete; Scrapers-Concrete and Carry all; Trenching machines; Truck Crane Oiler/Driver-under 100 tons; Tractor, backhoe-under 75 hp

GROUP 4 - Assistant Engineer; Bobcat; Brooms; Compressor; Concrete Finish Machine-laser screed; Crane-A-Frame, 10 tons and under; Elevator and manlift-permanent and shaft type; Forklifts-under 3000 lbs. with attachments; Gradechecker, stakehop; Hydralifts, boom trucks, 10 tons and under; Oil distributors, blower distribution and mulch seeding operator; Pavement breaker; Posthole Digger-mechanical; Power plant; Pumps-Water; Roller-other than Plant Mix; Wheel Tractors, Farmall type; Shotcrete/Gunite Equipment Operator

CATEGORY B PROJECTS - 95% of the basic hourly rate for each group plus full fringe benefits applicable to Category A projects shall apply to the following projects: Reduced rates may be paid on the following:

- 1. Projects involving work on structures such as buildings and structures whose total value is less than \$1.5 million excluding mechanical, electrical, and utility portions of the contract.
- 2. Projects of less than \$1 million where no building is involved. Surfacing and paving included, but utilities excluded.
 - 3. Marine projects (docts, wharfs, etc.) less than \$150,000

WORK PERFORMED ON HYDRAULIC DREDGES:

| Total Project cost \$300 |), 000 and over | |
|--------------------------|-----------------|-------|
| GROUP 1 | 24.75 | 7. 38 |
| GROUP 2 | 24.85 | 7.38 |
| GROUP 3 | 25. 19 | 7. 38 |
| GROUP 4 | 25. 24 | 7. 38 |
| GROUP 5 | 26. 63 | 7.38 |
| GROUP 6 | 24.75 | 7. 38 |
| | | |

GROUP 1: Assistant Mate (Deckhand)

GROUP 2: Oiler

GROUP 3: Assistant Engineer (Electric, Diesel, Steam or Booster Pump); Mates and Boatmen

GROUP 4: Craneman, Engineer Welder

GROUP 5: Leverman, Hydraulic

GROUP 6: Maintenance

| Total Project Cost under | \$300,000 | |
|--------------------------|-----------|-------|
| GROUP 1 | 23. 50 | 7. 38 |
| GROUP 2 | 23.60 | 7. 38 |
| GROUP 3 | 23.92 | 7. 38 |
| GROUP 4 | 23.96 | 7. 38 |
| GROUP 5 | 25. 29 | 7. 38 |
| GROUP 6 | 23. 50 | 7. 38 |

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GROUP 1: Assistant Mate (Deckhand)
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GROUP 2: Oiler GROUP 3: Assistant Engineer (Electric, Diesel, Steam or Booster Pump); Mates and Boatmen

GROUP 4: Craneman, Engineer Welder

GROUP 5: Leverman, Hydraulic

GROUP 6: Maintenance

HEAVY WAGE RATES APPLIES TO CLAM SHEEL DREDGE, HOE AND DIPPER, SHOVELS AND SHOVEL ATTACHMENTS, CRANES AND BULLDOZERS

HANDLING OF HAZARDOUS WASTE MATERIALS

H-1 - When not outfitted with protective clothing of level D equipment - Base wage rate

H-2 - Class "C" Suit - Base wage rate + \$.25 per hour

H-3 - Class "B" Suit - Base wage rate + \$.50 per hour

H-4 - Class "A" Suit - Base wage rate +\$.75 per hour

ENGI0701D 01/01/1999

Rates Fringes CLARK, COWLITZ, KLICKITAT, PACIFIC (SOUTH), SKAMANIA, AND WAHKIAKUM COUNTIES

POWER EQUIPMENT OPERATORS (See Footnote A) ZONE 1:

| GROUP 1 | 25. 91 | 8. 20 |
|---------|--------|-------|
| GROUP 2 | 25. 00 | 8. 20 |
| GROUP 3 | 24. 30 | 8. 20 |
| GROUP 4 | 23. 83 | 8. 20 |
| GROUP 5 | 23. 27 | 8. 20 |
| GROUP 6 | 21.10 | 8. 20 |

Zone Differential (add to Zone 1 rates): Zone 2 - \$1.50

Zone 3 - 3.00

For the following metropolitan counties: MULTNOMAH; CLACKAMAS; MARION: WASHINGTON: YAMHILL: AND COLUMBIA: CLARK AND COWLITZ COUNTY, WASHINGTON WITH MODIFICATIONS AS INDICATED:

All jobs or projects located in Multnomah, Clackamas and Marion counties, West of the western boundary of Mt. Hood National Forest and West of Mile Post 30 ON Interstate 84 and West of Mile Post 30 on State Highway 26 and West of Mile Post 30 on Highway 22 and all jobs located in Yamhill County, Washington County and Columbia County and all jobs or projects located in Clark and Cowlitz Counties, Washington except that portion of Cowlitz County in the Mt. St. Helens "Blast Zone" shall receive Zone I pay for all classifications.

All jobs or projects located in the area outside the identified boundary above, but less than 50 miles from the Portland City Hall shall receive Zone II pay for all classifications.

All jobs or projects located more than 50 miles from the Portland City Hall, but outside the identified border above, shall receive Zone III pay for all classifications.

For the following cities: ALBANY; COOS, BAY; EUGENE; GRANTS PASS; KLAMATH FALLS; MEDFORD; ROSEBURG

All jobs or projects located within 30 miles of the respective city hall of the above mentioned cities shall receive Zone I pay for all classifications.

All jobs of projects located more than 30 miles ans less than 50 miles from the respective city hall of the above mentioned cities shall receive Zone II pay for all classifications.

All jobs of projects located more than 50 miles from the respective city hall of the above mentioned cities shall receive Zone III pay for all classifications.

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: CONCRETE: Batch Plant and/or Wet Mix Operator, three units or more; CRANE: Crane Operator, over 200 tons; Whirley Operator 90 tons and over; Helicopter Operators, when used in erecting work; Floating Crane, 150 tons but less than 250 tons; Lattice Boom Crane - 200 tons and over, Boom 201' through 280'; FLOATING EQUIPMENT: Floating Crane, 250 tons and over

GROUP 2: ASPHALT: Asphalt Plant Operator (any type); Rotomill, pavement profiler, operator, six foot lateral cut and over; BLADE: Auto Grader or "Trimmer" Operator (Grade Checker required); BULLDOZERS: Tandem bulldozer operator, quad-nine and similar type; D-11; Tandem Bulldozer Operator, Quad-nine and similar type; CONCRETE: Batch Plant and/or Wet Mix Operator, one and two drum, Automatic Concrete Slip Form Paver Operator;

Concrete Canal Line Operator; Concrete Profiler, Diamond Head; CRANE: Cableway Operator, 25 tons and over; Crane Operator, over 40 tons and including 100 tons; Crane Operator, over 100 tons and including 200; Tower Crane Operator, over 80 tons and including 150 tons; Whirley Operator - under 90 tons; Lattice Boom Crane -90 through 199 tons, Boom = 150' through 200'; CRUSHER: Crusher Plant Operator; FLOATING QUIPMENT: Floating Clamshell, etc. Operator, 3cu. yds. and over; Floating Crane (derrick barge) Operator, 30 tons but less than 80 tons; Floating Crane (derrick barge) Operator, 80 ton but less than 150 ton; LOADERS: Loader Operator, 6 cu. yds. but less than 12 cu. yds.; Loader Operator, 12 cu. yds. and over; REMOTE CONTROL: Remote controlled earthmoving equipment (no one operator shall operate more than two pieces of earth-moving equipment at one time); RUBBER-TIRED SCRAPERS: Rubber-tired Scraper Operator, with tandem scrapers, multi-engine; SHOVEL, DRAGLINE, CLAMSHELL, BACKHOE, SKOOPER, OPERATOR: Shovel, etc., 3 cu. yds., but less than 5 cu. yds.; Shovel, etc., 5 cu. yds. and over; TRENCH MACHINE: Wheel Excavator, under 750 cu. yds. per hour (Grade Oiler required);

Canal Trimmer (Grade Oiler required); Wheel Excavator, over 750 cu. yds. per hour (two Operators and at least one Grade Oiler required); Band Wagon (in conjunction with wheel excavator); UNDERWATER EQUIPMENT: Underwater Equipment Operator, remote or otherwise, when used in construction work.

GROUP 3: CRANES: Lattice Boom Crane - 50 through 89 tons; FORKLIFT: Rock Hound Operator; LOADERS: Loader Operator, 4 cu. yds. but less than 6 cu. yds.; Rubber-tired RUBBER-TIRED SCRAPERS: Scraper Operator, with tandem scrapers; Self-loading, paddle wheel, auger type, finish and/or 2 or more units

GROUP 4: ASPHALT: Screed Operator; Asphalt Paver Operator (Screed man required); Diesel-Electric engineer, Plant; Roto-Mill, pavement profiler, operator, under six foot lateral cut; BLADE: Blade Operator, externally controlled by electronic, mechanical hydraulic means; Blade operator, multi-engine; BULLDOZERS: Bulldozer Operator; Drill Cat Operator; Side-boom Operator; Bulldozer Operator, twin engine (TC 12 and similar type, D-10); Cable-Plow Operator (any type); CLEARING: Skidders; Chippers; Incinerator; Stump Splitter (loader mounted or similar type); Compactor Operator, with blade; Compactor Operator, multi-engine; CONCRETE: Mixer Mobile Operator; Screed Operator; Concrete Cooling Machine Operator; Concrete Paving Road Mixer; Concrete Breaker; Reinforced Tank Banding Machine (K-17 or similar types); CRANE: Chicago boom and similar types; Lift Slab Machine Operator; Boom type lifting device, 5 ton capacity or less; Cherry Picker or similar type crane-hoist, 5 ton capacity or less; Crane Operator, under 25 ton (except for rough terrain), Hoist Operator, two drum Hoist Operator, three or more drums; Derrick Operator, under 100 ton; Hoist Operator, stiff leg, guy derrick or similar type, 50 ton and over; Cableway Operator, up to twenty-five ton; Crane Operator, over twenty-five ton and including forty ton; Bridge Crane Operator; Locomotive, Gantry, Overhead; Lattice Boom Crane - 25 through 49 tons; CRUSHER: Generator Operator; Diesel-Electric Engineer; Grizzley Operator; DRILLING: Drill Doctor; Boring Machine Operator; Driller-

Percussion, Diamond, Core, Cable, Rotary and similar type; Cat Drill (John Henry); FLOATING EQUIPMENT: Diesel-electric Engineer; Jack Operator, elevating barges, Barge Operator, self-unloading; Piledriver Operator (not crane type) (Deckhand required); Floating Clamshelll, etc. Operator, under 3 cu. yds. (Fireman or Diesel-Electric Engineer required); Floating Crane (derrick barge) Operator, less than 30 tons; GENERATORS: Generator Operator; Diesel-electric Engineer required); GUARDRAIL EQUIPMENT: Guardrail Punch Operator (all types); Guardrail auger Operator (all types); Combination Guardrail machines, i.e. punch, auger, etc.; HEATING PLANT: Surface Heater and Planer Operator; HYDRAULIC HOES: Hydraulic Backhoe Operator, Track Type 3/8 cu. yd. takes shovel Classif. rate); LOADERS: Belt Loaders, Kolman and Ko Cal types; Loaders Operator, front end and overhead, 2-1/2 cu. yds. and under 4 cu. yds.; Elevating Loader Operator, Athey and asimilar types; Elevating Grader Operator, operated by Tractor Operator, sierra, Euclid or similar types; PILEDRIVERS: Hammer Operator; Piledriver Operator (not crane type); Pipe

Cleaning Machine Operator; Pipe Doping Machine Operator; PIPELINE, SEWER WATER: Pipe Bending Machine Operator; Pipe Wrapping Machine Operator; Boring Machine Operator; Back Filling Machine Operator; REPAIRMEN, HEAVY DUTY: Diesel-Electric Engineer (Plant or Floating); Bolt Treading Machine Operator; Drill Doctor (bit grinder); H. D. Mechanic; H. D. Welder; Machine Tool Operator; Combination H.D. Mechanic-Welder, when dispatched and/or when required to do both; Welder-Certified, when dispatched and/or required; RUBBER-TIRED SCRAPERS: Rubber-tired Scraper Operator, single engine, single scraper; Self-loading, paddle wheel, auger type under 15 cu. yds.; rubber-tired Scraper Operator, twin engine; Rubber-tired Scraper Operator, with pushpull attachments; Self-loading, paddle wheel, auger type 15 cu. vds. and over, single engine; SHOVEL, DRAGLINE, CLAMSHELL, BACKHOE, SKOOPER OPERATOR: Diesel-Electric Engineer; Stationary Drag Scraper Operator; Shovel, Dragline, Clamshell, Hoe, etc., Operator, under 1 cu. yd.; Shovel, etc., 1 cu. yd. and less than 3 cu. yds.; Grade-all Operator, under 1 cu. yd.; Grade-all 1 cu. yd. and over; SURFACING (BASE) MATERIALS: Blade Mounted Spreaders, Ulrich and similar types; TRACTOR-RUBBER TIRED: Tractor Operator, rubber-tired, over 50 H.P. Flywheel; Tractor Operator, with boom attachment; Rubber-tired Dozers and Pushers (Michigan, Cat, Hough type); TRENCHING MACHINE: Trenching Machine Operator, maximum digging capacity over 3 ft. depth (Grade Oiler required); Back Filling Machine Operator; TUNNEL: Mucking Machine Operator; Shield Operator; Boring Machine Operator

GROUP 5: ASPHALT: Extrusion Machine Operator; Roller Operator (any asphalt mix); Asphalt Burner and reconditioner Operator (any type), 84; roto-mill, Pavement Profiler, ground man.; COMPRESSORS: Compressor Operator any power), over 1,250 cu. ft. total capacity; COMPACTORS: Compactor Operator, including vibratory; Wagner Pactor Operator or similar type (without blade); CONCRETE: Combination mixer and Compressor Operator, gunite work; Concrete Batch Plant Quality Control Operator; Beltcrete Operator; Pumpcrete Operator (any type) Pavement Grinder and/or Grooving Machine Operator (riding type); Cement

Pump Operator, Fuller-Kenyon and similar; Concrete Pump Operator Grouting Machine Operator; Concrete Mixer Operator, single drum, under five bag capacity and over; Cast place pipe laying machine; Maginnis Internal Full Slab Vibrator Operator; Concrete Finishing machine Operator, Clary, Johnson, Bidwell, Burgess bridge deck or similar type; Curb Machine Operator, mechanical Berm, Curb and/or Curb and Gutter; Concrete Joint Machine Operator; Concrete Planer Operator; Tower Mobile Operator; Power Jumbo Operator setting slip forms; Concrete Paving Machine Operator; Concrete Finishing Machine Operator; Concrete Spreader Operator; CRANE: Helicopter Hoist Operator; Hoist Operator, single drum, Elevator Operator; A-frame Truck Operator, Double drum, Boom Truck Operator Hydraulic Boom Truck, Pittman; DRILLING: Churn Drill and earth Boring Machine Operator; FLOATING EQUIPMENT: Fireman; FORKLIFT: Lull Hi-Lift Operator or similar type; Fork Lift, over 5 ton; HYDRAULIC HOES: Hydraulic Backhoe Operator, wheel type 3/8 cu. yd and under with or without front end attachment 2-1/2 cu. yds.

and under (Ford, John Deere, Case, Type); LOADERS: Loaders, rubber-tired type, 2-1/2 cu. yds. and under; Elevating Grader Operator, Tractor Towed requiring Operator or Grader; OILERS: Service Oiler (Greaser); PIPELINE, SEWER WATER: Hydra Hammer or similar types; Pavement Breaker Operator; RAILROAD EQUIPMENT: Locomotive Operator, under 40 tons; Ballast Regulator Operator; Ballast Tamper Multi-Purpose Operator; Track Liner Operator; Tie Spacer Operator; Shuttle Car Operator; Locomotive Operator, 40 tons and over; SURFACING (BASE) MATERIAL: Roller Operator, Oiling, C.T.B.; Rock Spreaders self-propelled; Pulva-mixer or similar types; Chip Spreading Machine Operator Line Spreading Operator, construction job site; SWEEPERS: Sweeper Operator (Wayne Tractor Operator, rubber-tired, 50 H.P. Flywheel and under; TRENCHING: Trench Machine Operator, maximum digging capacity 3 ft. depth

GROUP 6: ASPHALT: Plant Oiler; Plant Fireman; Pugmill Operator (any type); Truck mounted asphalt spreader, with screed; BLADE: Blade Operator, pulled type; COMPRESSORS: Compressor Operator (any power), under 1,250 cu. ft. total capacity; CONCRETE: Plant Oiler, Assistant Conveyor Operator; Conveyor Operator; Mixer Box Operator (C.T.B., dry batch, etc.); Cement Hog Operator; Concrete Saw Operator; Concrete Curing Machine Operator (riding type); Wire Mat or Brooming Machine Operator; CRANE: Oiler; Truck Crane Oiler-Driver, 25 tons capacity or over; Fireman, all equipment; A-frame Truck Operator, single drum, Tugger or Coffin Type Hoist Operator; CRUSHER: Crusher Oiler; Crusher Feederman; DRILLING: Drill Tender; Auger Oiler; FLOATING EQUIPMENT: Deckhand; Boatman; Self-propelled Scaffolding Operator, construction job site (excluding working platform); Fork Lift or Lumber Stacker Operator, construction job site; GUARDRAIL EQUIPMENT: auger Oiler; Oiler, combination guardrail machines; Guardrail Punch Oiler; HEATING PLANT: Temporary Heating Plant Operator; Bucket Elevator Loader Operator, Barber-Greene and similar types; Bobcat, Skid Steer - Under 1 yd; OILERS: Guardrail Punch Oiler; Truck Crane Oiler-Driver, 25 ton or over; Auger Oiler; Grade Oiler, required to check grade; Grade Checker; Tar Pot Fireman; PIPELINE SEWER WATER: Tar Pot Fireman (power agitated); Hydraulic Pipe Press Operator; PUMPS: Pump Operator,

under 4"; Pump Operator (any power), 4" and over; Hydrostatic Pump Operator; RAILROAD EQUIPMENT: Brakeman; Oiler; Switchman; Motorman; Ballast Jack Tamper Operator; REPAIRMAN HEAVY DUTY: Parts Man (Tool Room); SHOVEL, DRAGLINE, CLAMSHELL, BACKHOE, SKOOPER OPERATORS: Oiler; Grade Oiler (required to check grade); Grade Checker; Fireman; Signalman; Bell Boy, phones, etc., Operator; Helicopter Radioman (ground); SURFACING (BASE) MATERIAL: Roller Operator, grading of base rock (not asphalt); Tamping Machine Operator, mechanical, self-propelled; Hydrographic Seeder Machine Operator, staw, pulp or seed; SWEEPERS: Broom Operator, self-propelled, construction job site; TRENCHING: Oiler; Grade Oiler (required to check grade); TUNNEL: Conveyor Operator (any type); air Filtration Equipment Operator; Motormen (dinkey); Oiler; WELDING MACHINES: Welding Machine Operator

FOOTNOTE A: HANDLING OF HAZARDOUS WASTE MATERIALS: Personnel in all craft classifications subject to working inside a federally designated hazardous perimeter shall be eligible for compensation in accordance with the following group schedule relative to the level of hazardous waste as outline in the specific hazardous waste project site safety plan.

- H-1 Base wage rate when on a hazardous waste site when not outfitted with protective clothing.
- H-2 Class "C" Suit Basic hourly wage rate plus \$1.00 per hour, fringes plus \$0.15.
- H-3 Class "B" Suit Basic hourly wage rate plus \$1.50 per hour, fringes plus \$0.15.
- H-4 Class "A" Suit Basic hourly wage rate plus \$2.00 per hour, fringes plus \$0.15.

ENGI0701E 06/01/1999

Rates Fringes CLARK, COWLITZ, KLICKITAT, PACIFIC (SOUTH), SKAMANIA, AND WAHKIAKUM COUNTIES

DREDGING:

| | | ZONE | A | | |
|------------------------|------------------------|--------|---|--------------|-------|
| LEVERMAN, LEVERMAN, | HYDRAULI C DI PPER, | | | 29. 70 | 7. 50 |
| FLOATING | CLAMSHELL | | | 29. 70 | 7. 50 |
| ASSISTANT | ENGINEER | | | 27.72 | 7. 50 |
| TENDERMAN | | | | 26. 81 | 7. 50 |
| ASSISTANT | MATE | | | 24. 38 | 7. 50 |
| | | ZONE B | 1 | | |
| LEVERMAN, | HYDRAULI C | | | 31. 70 | 7. 50 |
| LEVERMAN, | DI PPER, | | | | |
| FLOATING | CLAMSHELL | | | 31.70 | 7.50 |
| ASSISTANT | ENGINEER | | | 29. 72 | 7. 50 |
| TENDERMAN | | | | 28. 81 | 7. 50 |
| ASSISTANT | MATE | | | 26. 38 | 7. 50 |
| | | ZONE | C | | |
| LEVERMAN, | HYDRAULI C | | | 32. 70 | 7. 50 |
| LEVERMAN, | DI PPER, | | | | |
| FLOATING | CLAMSHELL | | | 32.70 | 7. 50 |
| ASSISTANT | ENGINEER | | | 30.72 | 7. 50 |
| TENDERMAN | | | | 29. 81 | 7. 50 |
| ASSISTANT | MATE | | | 27.38 | 7.50 |

ZONE DESCRIPTION FOR DREDGING:

- ZONE A All jobs or projects located within 30 road miles of Portland City Hall.
- ZONE B Over 30-50 road miles from Portland City Hall.
- ZONE C Over 50 road miles from Portland City Hall.

*All jobs or projects shall be computed from the city hall by the shortest route to the geographical center of the project.

IRON0014F 07/01/1999

Rates Fringes
ADAMS, ASOTIN, BENTON, COLUMBIA, DOUGLAS, FERRY, FRANKLIN,
GARFIELD, GRANT, LINCOLN, OKANOGAN, PEND ORIELLE, SPOKANE,
STEVENS, WALLA WALLA AND WHITMAN COUNTIES

IRONWORKERS 23. 47 10. 35

IRON0029I 07/01/1999

Rates Fringes
CLARK, CLALLAM, CHELAN, COWLITZ, GRAYS HARBOR, ISLAND, JEFFERSON,
KING, KITTITAS, KLICKITAT, KITSAP, LEWIS, MASON, PACIFIC, PIERCE,
SKAGIT, SKAMANIA, SNOHOMISH, THURSTON, WAHKAIKUM, WHATCOM AND
YAKIMA COUNTIES

I RONWORKERS 24. 22 10. 35

LAB00001D 06/01/1999

Rates Fringes CHELAN, DOUGLAS (WEST OF THE 120TH MERIDIAN), KITTITAS AND YAKIMA COUNTIES

LABORERS:

ZONE 1:

| 13.89 | 5.41 |
|--------|----------------------------|
| 16. 21 | 5.41 |
| 17. 93 | 5.41 |
| 18. 41 | 5.41 |
| 18. 77 | 5.41 |
| | 16. 21 17. 93 18. 41 |

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$.70 ZONE 3 - \$1.00

BASE POINTS: CHELAN, SUNNYSIDE, WENATCHEE, AND YAKIMA

- ZONE 1 Projects within 25 radius miles of the respective city
- ZONE 2 More than 25 but less than 45 radius miles from the respective city hall
- ZONE 3 More than 45 radius miles from the respective city hall

CALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS, MASON, PACIFIC (NORTH OF STRAIGHT LINE MADE BY EXTENDING THE NORTH BOUNDARY WAHKIAKUM COUNTY WEST TO THE PACIFIC OCEAN), PIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON AND WHATCOM COUNTIES

LABORERS:

| ZONE 1: | | |
|---------|--------|-------|
| GROUP 1 | 15.07 | 5.41 |
| GROUP 2 | 17. 39 | 5. 41 |
| GROUP 3 | 22.07 | 5.41 |
| GROUP 4 | 22. 55 | 5.41 |
| GROUP 5 | 22. 91 | 5. 41 |

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$.70 ZONE 3 - \$1.00

BASE POINTS: BELLINGHAM, MT. VERNON, EVERETT, SEATTLE, KENT, TACOMA, OLYMPIA, CENTRALIA, ABERDEEN, SHELTON, PT. TOWNSEND, PT. ANGELES, AND BREMERTON

ZONE 1 - Projects within 25 radius miles of the respective city hall

ZONE 2 - More than 25 but less than 45 radius miles from the respective city hall

ZONE 3 - More than 45 radius miles from the respective city hall

LABORERS CLASSIFICATIONS

GROUP 1: Landscaping and Planting; Watchman; Window Washer/Cleaner (detail clean-up, such as but not limited to cleaning floors, ceilings, walls, windows, etc., prior to final acceptance by the owner)

GROUP 2: Batch Weighman; Crusher Feeder; Fence Laborer; Flagman; Pilot Car

GROUP 3: General Laborer; Air, Gas, or Electric Vibrating Screed; Asbestos Abatement Laborer; Ballast Regulator Machine; Brush Cutter; Brush Hog Feeder; Burner; Carpenter Tender; Cement Finisher Tender; Change House or Dry Shack; Chipping Gun (under 30 lbs.); Choker Setter; Chuck Tender; Clean-up Laborer; Concrete

Form Stripper; Curing Laborer; Demolition (wrecking and moving including charred material); Ditch Digger; Dump Person; Fine Graders; Firewatch; Form Setter; Gabian Basket Builders; Grout Machine Tender; Grinders; Guardrail Erector; Hazardous Waste Worker (Level C); Maintenance Person; Material Yard Person; Pot Tender; Rip Rap Person; Riggers; Scale Person; Sloper Sprayer; Signal Person; Stock Piler; Stake Hopper; Toolroom Man (at job site); Topper-Tailer; Track Laborer; Truck Spotter; Vinyl Seamer

GROUP 4: Cement Dumper-Paving; Chipping Gun (over 30 lbs.); Clary Power Spreader; Concrete Dumper/Chute Operator; Concrete Saw Operator; Drill Operator (hydraulic, diamond, aiartrac); Faller and Bucker Chain Saw; Grade Checker and Transit Person; Groutmen (pressure) including post tension beams; Hazardous Waste Worker (Level B); High Scaler; Jackhammer; Laserbeam Operator; Manhole Builder-Mudman; Mortarman and Hodcarrier; Nozzleman (concrete pump, green cutter when using combination of high pressure air and water on concrete and rock, sandblast, gunite,

shotcrete, water blaster, vacuum blaster); Pavement Breaker; Pipe Layer and Caulker; Pipe Pot Tender; Pipe Reliner (not insert type); Pipe Wrapper; Power Jacks; Railroad Spike Puller-Power; Raker-Asphalt; Rivet Buster; Rodder; Sloper (over 20'); Spreader (concrete); Tamper and Similar electric, air and glas operated tool; Timber Person-sewer (lagger shorer and cribber); Track Liner Power; Tugger Operator; Vibrator; Well Point Laborer

GROUP 5: Caisson Worker; Miner; Powderman; Re-Timberman; Hazardous Waste Worker (Level A).

LAB00238E 06/01/1999

Rates Fringes
ADAMS, ASOTIN, BENTON, COLUMBIA, DOUGLAS (EAST OF THE 120TH
MERIDIAN), FERRY, FRANKLIN, GARFIELD, GRANT, LINCOLN,
OKANOGAN, PEND OREILLE, STEVENS, SPOKANE, WALLA WALLA AND
WHITMAN COUNTIES

LABORERS:

ZONE 1:

| GROUP 1 | 17. 40 | 4. 51 |
|---------|--------|-------|
| GROUP 2 | 19. 50 | 4. 51 |
| GROUP 3 | 19. 77 | 4. 51 |
| GROUP 4 | 20.04 | 4. 51 |
| GROUP 5 | 20. 32 | 4. 51 |
| GROUP 6 | 21. 69 | 4. 51 |

Zone Differential (Add to Zone 1 rate): \$2.00

BASE POINTS: Spokane, Moses Lake, Pasco, Lewiston

Zone 1: 0-45 radius miles from the main post office.

Zone 2: 45 radius miles and over from the main post office.

LABORERS CLASSIFICATIONS

GROUP 1: Flagman; Landscape Laborer; Scaleman; Traffic Control Maintenance Laborer (to include erection and maintenance of barricades, signs and relief of flagperson); Window Washer/Cleaner (detail cleanup, such as, but not limited to cleaning floors, ceilings, walls, windows, etc. prior to final acceptance by the owner)

GROUP 2: Asbestos Abatement Worker; Brush Hog Feeder; Carpenter Tender; Cement Handler; Clean-up Laborer; Concrete Crewman (to include stripping of forms, hand operating jacks on slip form construction, application of concrete curing compounds, pumpcrete machine, signaling, handling the nozzle of squeezcrete or similar machine, 6 inches and smaller); Confined Space Attendant; Concrete Signalman; Crusher Feeder; Demolition (to include clean-up, burning, loading, wrecking and salvage of all material); Dumpman; Fence Erector; Firewatch; Form Cleaning Machine Feeder, Stacker;

General Laborer; Grout Machine Header Tender; Guard Rail (to include guard rails, guide and reference posts, sign posts, and right-of-way markers); Hazardous Waste Worker, Level D (no respirator is used and skin protection is minimal); Miner, Class "A" (to include all bull gang, concrete crewman, dumpman and pumpcrete crewman, including distributing pipe, assembly & dismantle, and nipper); Nipper; Riprap Man; Sandblast Tailhoseman; Scaffold Erector (wood or steel); Stake Jumper; Structural Mover (to include separating foundation, preparation, cribbing, shoring, jacking and unloading of structures); Tailhoseman (water nozzle); Timber Bucker and Faller (by hand); Track Laborer (RR); Truck Loader; Well-Point Man; All Other Work Classifications Not Specially Listed Shall Be Classified As General Laborer

GROUP 3: Aspahlt Raker; Asphalt Roller, walking; Cement Finisher Tender; Concrete Saw, walking; Demolition Torch; Dope Pot Firemen, non-mechanical; Driller Tender (when required to move and position machine); Form Setter, Paving; Grade Checker using level; Hazardous Waste Worker, Level C (uses a chemical "splash suit" and air purifying respirator); Jackhammer Operator; Miner, Class "B" (to include brakeman, finisher, vibrator, form setter); Nozzleman (to include squeeze and flo-crete nozzle); Nozzleman, water, air or steam; Pavement Breaker (under 90 lbs.); Pipelayer, corrugated metal culvert; Pipelayer, multiplate; Pot Tender; Power Buggy Operator; Power Tool Operator, gas, electric, pneumatic; Railroad Equipment, power driven, except dual mobile power spiker or puller; Railroad Power Spiker or Puller, dual mobile; Rodder and Spreader; Tamper (to include operation of Barco, Essex and similar tampers); Trencher, Shawnee; Tugger Operator; Wagon Drills; Water Pipe Liner; Wheelbarrow (power driven)

GROUP 4: Air and Hydraulic Track Drill; Brush Machine (to include horizontal construction joint cleanup brush machine, power propelled); Caisson Worker, free air; Chain Saw Operator and Faller; Concrete Stack (to include laborers when laborers working on free standing concrete stacks for smoke or

fume control above 40 feet high); Gunite (to include operation of machine and nozzle); Hazardous Waste Worker, Level B (uses same respirator protection as Level A. A supplied air line is provided in conjunction with a chemical "splash suit"); High Scaler; Laser Beam Operator (to include grade checker and elevation control); Miner, Class C (to include miner, nozzleman for concrete, laser beam operator and rigger on tunnels); Monitor Operator (air track or similar mounting); Mortar Mixer; Nozzleman (to include jet blasting nozzleman, over 1,200 lbs., jet blast machine power propelled, sandblast nozzle); Pavement Breaker (90 lbs. and over); Pipelayer (to include working topman, caulker, collarman, jointer, mortarman, rigger, jacker, shorer, valve or meter installer); Pipewrapper; Plasterer Tender; Vibrators (all)

GROUP 5 - Drills with Dual Masts; Hazardous Waste Worker, Level A (utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line); Miner Class "D", (to

include raise and shaft miner, laser beam operator on riases and shafts)

GROUP 6 - Powderman

LAB00238G 06/01/1999

Rates Fringes
COUNTIES EAST OF THE 120TH MERIDIAN: ADAMS, ASOTIN, BENTON,
COLUMBIA, DOUGLAS, FERRY, FRANKLIN, GARFIELD, GRANT, LINCOLN,
OKANOGAN, PEND OREILLE, STEVENS, SPOKANE, WALLA WALLA, WHITMAN

HOD CARRIERS 20. 19 4. 51

LAB00335A 06/01/1999

Rates Fringes
CLARK, COWLITZ, KLICKITAT, PACIFIC (SOUTH OF A STRAIGHT LINE MADE
BY EXTENDING THE NORTH BOUNDARY LINE OF WAHKIAKUM COUNTY WEST TO
THE PACIFIC OCEAN), SKAMANIA AND WAHKIAKUM COUNTIES

ZONE 1:

| GROUP 1 | 21. 25 | 6. 36 |
|---------|--------|-------|
| GROUP 2 | 21. 74 | 6. 36 |
| GROUP 3 | 22. 10 | 6. 36 |
| GROUP 4 | 22.40 | 6. 36 |
| GROUP 5 | 19. 21 | 6. 36 |
| GROUP 6 | 17. 25 | 6. 36 |
| GROUP 7 | 14. 68 | 6. 36 |

Zone Differential (Add to Zone 1 rates):

Zone 2 \$ 0.65

Zone 3 - 1.15

Zone 4 - 1.70

Zone 5 - 2.75

BASE POINTS: GOLDENDALE, LONGVIEW, AND VANCOUVER

ZONE 1: Projects within 30 miles of the respective city all.

ZONE 2: More than 30 miles but less than 40 miles from the respective city hall.

ZONE 3: More than 40 miles but less than 50 miles from the respective city hall.

ZONE 4: More than 50 miles but less than 80 miles from the respective city hall.

ZONE 5: More than 80 miles from the respective city hall.

LABORERS CLASSIFICATIONS

GROUP 1: Asphalt Plant Laborers; Asphalt Spreaders; Batch Weighman; Broomers; Brush Burners and Cutters; Car and Truck Loaders; Carpenter Tender; Change-House Man or Dry Shack Man; Choker Setter; Clean-up Laborers; Curing, Concrete; Demolition, Wrecking and Moving Laborers; Dumpers, road oiling crew; Dumpmen (for grading crew); Elevator Feeders; Guard Rail, Median Rail

Reference Post, Guide Post, Right of Way Marker; Fine Graders; Fire Watch; Form Strippers (not swinging stages); General Laborers; Hazardous Waste Worker; Leverman or Aggregate Spreader (Flaherty and similar types); Loading Spotters; Material Yard Man (including electrical); Pittsburgh Chipper Operator or Similar Types; Railroad Track Laborers; Ribbon Setters (including steel forms); Rip Rap Man (hand placed); Road Pump Tender; Sewer Labor; Signalman; Skipman; Slopers; Spraymen; Stake Chaser; Stockpiler; Tie Back Shoring; Timber Faller and Bucker (hand labor); Toolroom Man (at job site); Tunnel Bullgang (above ground); Weight-Man-Crusher (aggregate when used)

GROUP 2: Applicator (including pot power tender for same), applying protective material by hand or nozzle on utility lines or storage tanks on project; Brush Cutters (power saw); Burners; Choker Splicer; Clary Power Spreader and similar types; Cleanup Nozzleman-Green Cutter (concrete, rock, etc.); Concrete Power Buggyman; Concrete Laborer; Crusher Feeder; Demolition and Wrecking Charred Materials; Gunite Nozzleman Tender; Gunite or Sand Blasting Pot Tender; Handlers or Mixers of all Materials of an irritating nature (including cement and lime); Tool Operators (includes but not limited to: Dry Pack Machine; Jackhammer; Chipping Guns; Paving Breakers); Pipe Doping and Wrapping; Post Hole Digger, air, gas or electric; Vibrating Screed; Tampers; Sand Blasting (Wet); Stake-Setter; Tunnel-Muckers, Brakemen, Concrete Crew, Bullgang (underground)

GROUP 3: Asbestos Removal; Bit Grinder; Drill Doctor; Drill Operators, air tracks, cat drills, wagon drills, rubber-mounted drills, and other similar types including at crusher plants; Gunite Nozzleman; High Scalers, Strippers and Drillers (covers work in swinging stages, chairs or belts, under extreme conditions unusual to normal drilling, blasting, barring-down, or sloping and stripping); Manhole Builder; Powdermen; Concrete Saw Operator; Pwdermen; Power Saw Operators (Bucking and Falling); Pumpcrete Nozzlemen; Sand Blasting (Dry); Sewer Timberman; Track Liners, Anchor Machines, Ballast Regulators, Multiple Tampers, Power Jacks, Tugger Operator; Tunnel-Chuck Tenders, Nippers and Timbermen; Vibrator; Water Blaster

GROUP 4: Asphalt Raker; Concrete Saw Operator (walls); Concrete Nozzelman; Grade Checker; Pipelayer; Laser Beam (pipelaying)-applicable when employee assigned to move, set up, align; Laser Beam; Tunnel Miners; Motorman-Dinky Locomotive-Tunnel; Powderman-Tunnel; Shield Operator-Tunnel

GROUP 5: Traffic Flaggers

GROUP 6: Fence Builders

GROUP 7: Landscaping or Planting Laborers

Rates Fringes STATEWIDE EXCEPT CLARK, COWLITZ, KLICKITAT, PACIFIC (SOUTH),

^{*} PAIN0005B 06/01/1998

SKAMANIA, AND WAHKIAKUM COUNTIES

| STRIPERS | 19. 25 | 5.44 |
|----------|--------|------|
| | | |

PAIN0005D 03/01/1999

Rates Fringes
CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS,
MASON, PACIFIC, PIERCE, SKAGIT, SNOHOMISH, THURSTON AND
WHATCOM COUNTIES

PAINTERS 21. 85 3. 55

PAIN0054D 07/01/1998

Rates Fringes
ADAMS, ASOTIN; BENTON AND FRANKLIN (EXCEPT HANFORD SITE); CHELAN,
COLUMBIA, DOUGLAS, FERRY, GARFIELD, GRANT, KITTITAS, LINCOLN,
OKANOGAN, PEND OREILLE, SPOKANE, STEVENS, WALLA WALLA,
WHITMAN AND YAKIMA COUNTIES

PAINTERS*:

| Brush, Roller, Striping, | | |
|-----------------------------------|--------|------|
| Steam cleaning and Spray | 18. 80 | 3.67 |
| Application of Cold Tar | | |
| Products, Epoxies, Polyure | | |
| thanes, Acids, Radiation | | |
| Resistant Material, Water and | | |
| Sandblasting, Bridges, Towers, | | |
| Tanks, Stacks, Steeples | 19.65 | 3.67 |
| TV Radio, Electrical Transmission | | |
| Towers | 20. 39 | 3.67 |
| Lead Abatement, Asbestos | | |
| Abatement | 18. 80 | 3.67 |

*\$.70 shall be paid over and above the basic wage rates listed for work on swing stages and high work of over 30 feet.

.....

PAIN0055C 11/01/1997

Rates Fringes CLARK, COWLITZ, KLICKITAT, SKAMANIA, AND WAHKIAKUM COUNTIES

INDUSTRIAL - ANY INDUSTRIAL FACILITY, MANUFACTURING PLANTS, PROCESS PLANTS, FACTORIES, PAPER MILLS AND ALUMINUM PLANTS

PAINTERS:

| Brush & Roller | 16. 68 | 3. 25 |
|--|--------|-------|
| Spray and Sandblasting High work - All work | 17. 28 | 3. 25 |
| 60 ft. or higher | 17. 18 | 3. 25 |
| | | |

* PAIN0055L 06/01/1999

Rates Fringes

| CLARK, COWLITZ, KLICKITAT, SI | KAMANIA and WAHKIAKUM COU | NTIES |
|---|---------------------------------------|----------|
| PAINTERS: HIGHWAY AND PARKING LOT | | |
| STRIPER | 20. 83 | 4. 76 |
| | | |
| PLAS0072E 06/01/1999 | | - • |
| ADAMS, ASOTIN, BENTON, CHELAN | Rates N. COLUMRIA DOUGLAS, FER | U |
| FRANKLIN, GARFIELD, GRANT, KI | | |
| OREILLE, SPOKANE, STEVENS, W | ALLA WALLA, WHITMAN, AND | |
| YAKIMA COUNTIES | | |
| ZONE 1: | | |
| CEMENT MASONS | 21. 57 | 5. 24 |
| Zone Differo rate): Zono | ential (Add to Zone 1 e 2 - \$2.00 | |
| BASE POINTS: Spokane, Pasco, | Moses Lake, Lewiston | |
| Zone 1: 0 - 45 radius miles Zone 2: Over 45 radius miles | | |
| | - | |
| PLAS0528A 06/01/1998 | Pada a | E |
| CLALLAM, GRAYS HARBOR, ISLAND MASON, PACIFIC (NORTH), PIERO THURSTON, AND WHATCOM COUNTIL | CE, SAN JUAN, SKAGIT, SNO | P, LEWIS |
| CEMENT MASON | 23. 80 | 7. 89 |
| COMPOSITION, COLOR MASTIC, | 20.00 | |
| TROWEL MACHINE, GRINDER, | | |
| POWER TOOLS, GUNNITE NOZZLE | | |
| | | |
| PLAS0555B 06/01/1999 | _ | |
| CLARK, COWLITZ, KLICKITAT, PA | Rates | Fringes |
| WAHKIAKUM COUNTIES | ACIFIC (SUUIH), SMAMANIA, | AND |
| ZONE 1: | | |
| CEMENT MASONS | 22. 81 | 7. 00 |
| COMPOSITION WORKERS AND | | |
| POWER MACHINERY OPERATORS | 23. 22 | 7. 00 |
| CEMENT MASONS ON SUSPENDED, SWINGING AND/OR HANGING | | |
| SWINGING AND/OR HANGING SCAFFOLD | 23. 22 | 7. 00 |
| CEMENT MASONS DOING BOTH | ~~. ~~ | 00 |
| COMPOSITION/POWER MACHINED AND SUSPENDED/HANGING | RY | |

Zone Differential (Add To Zone 1 Rates):

DACA67-99-R-0049

SCAFFOLD

WA990001-29

23.64

7. 00

| Zone 3 | - \$0.65 - 1.15 | |
|--|--|------------|
| Zone 4 Zone 5 | - 1.70 - 2.75 | |
| | | |
| BASE POINTS: BEND, CORVALLIS PORTLAND, SALEM | S, EUGENE, LONGVIEW, MEDFO M, THE DALLES, VANCOUVER | JRD, |
| ZONE 1: Projects within 30 m | | |
| ZONE 2: More than 30 miles in respective city hall | | om the |
| ZONE 3: More than 40 miles l | | m the |
| respective city hall | | . • |
| ZONE 4: More than 50 miles I respective city hall | | om the |
| ZONE 5: More than 80 miles f | | ıall |
| | _ | |
| PLUMD032B 06/01/1998 | | |
| 1 LUNDU32B 00/01/1398 | Rates | Fringes |
| CLALLAM, KING AND JEFFERSON (| | 8 |
| PLUMBERS AND PIPEFITTERS | 29. 48 | |
| PLUMD032D 06/01/1998 | | |
| 110MD032D 00/01/1998 | Rates | Fringes |
| CHELAN, KITTITAS (NORTHERN TI (NORTH) COUNTIES | IP), DOUGLAS (NORTH), AND | OKANOGAN |
| PLUMBERS AND PIPEFITTERS | | |
| PLUMD044C 06/01/1999 | | |
| | Rates | |
| ADAMS (NORTHERN PART), ASOTIMPART), LINCOLN (EASTERN PART) | | |
| AND WHITMAN COUNTIES | , FERD URIELLE, SIEVERS, | SPURANE, |
| PLUMBERS AND PIPEFITTERS | 27. 71 | 7. 89 |
| PLUMD082A 06/01/1999 | | |
| | | Fringes |
| CLARK (NORTHERN TIP INCLUDING LEWIS, MASON (EXCLUDING NE SI | | YS HARBOR, |
| SKAMANIA, THURSTON AND WAHKIA | | |
| PLUMBERS AND PIPEFITTERS | 22. 42 | |
| | | |

DACA67-99-R-0049

PLUMD265C 06/01/1999

PLUMBERS AND PIPEFITTERS

ISLAND, SKAGIT, SNOHOMISH AND SAN JUAN COUNTIES

WA990001-30

Rates

28.37

Fringes

9. 54

WHATCOM COUNTY

| PLUMBERS AND STEAMFITTERS | | |
|---|-------------|--------------|
| Plumbing projects | | |
| over \$3,000,000 | 27. 40 | 9. 54 |
| Plumbing projects \$3,000,000 and under | 28. 37 | |
| PLUMD290K 04/01/1999 | | |
| | Rates | Fringes |
| CLARK (ALL EXCLUDING NORTHERN TIP IN | | |
| PLUMBERS AND PIPEFITTERS | 28. 31 | |
| * PLUMD598E 06/21/1999 | | |
| | Rates | Fringes |
| BENTON, COLUMBIA, DOUGLAS (EASTERN FRANKLIN, GARFIELD, GRANT, KITTITAS KLICKITAT, LINCOLN (WESTERN PART), O WALLA AND YAKIMA COUNTIES | (ALL BUT NO | RTHERN TIP), |
| PLUMBERS | 28. 10 | |
| PLUMD631A 06/01/1997 | | |
| | Rates | Fringes |
| MASON (NE SECTION), | | |
| AND KITSAP COUNTIES | | |
| PLUMBERS/PIPEFITTERS: | | |
| All new construction, additions, | | |
| and remodeling of commercial | | |
| building projects such as: | | |
| cocktail lounges and taverns, | | |
| professional buildings, medical | | |
| clinics, retail stores, hotels | | |
| and motels, restaurants and fast | | |
| food types, gasoline service | | |
| stations, and car washes where | | |
| the plumbing and mechanical cost | | |
| of the project is less than | 14 77 | 7 00 |
| \$100,000 | 14. 55 | 7. 98 |
| All other work where the plumbing | | |
| and mechanical cost of the project | | |
| is \$100,000 and over | 20. 78 | 12.28 |
| | | |
| TEAMD037C 06/01/1999 | | |
| | Rates | Fringes |

Rates Fringes
CLARK, COWLITZ, KLICKITAT, PACIFIC (South of a straight line made

DACA67-99-R-0049

WA990001-31

by extending the north boundary line of Wahkiakum County west to the Pacific Ocean), SKAMANIA, AND WAHKIAKUM COUNTIES

TRUCK DRIVERS

| ZONE 1: | | | |
|---------|---|--------|-------|
| GROUP | 1 | 22.57 | 7. 60 |
| GROUP | 2 | 22.69 | 7. 60 |
| GROUP | 3 | 22.82 | 7. 60 |
| GROUP | 4 | 22.07 | 7. 60 |
| GROUP | 5 | 23. 29 | 7. 60 |
| GROUP | 6 | 23.44 | 7. 60 |
| GROUP | 7 | 23.64 | 7. 60 |

Zone Differential (Add to Zone 1 Rates):

Zone 2 - \$0.65 Zone 3 - 1.15 Zone 4 - 1.70 Zone 5 - 2.75

BASE POINTS: ASTORIA, THE DALLES, LONGVIEW AND VANCOUVER

- ZONE 1: Projects within 30 miles of the respective city hall.
- ZONE 2: More than 30 miles but less than 40 miles from the respective city hall.
- ZONE 3: More than 40 miles but less than 50 miles from the respective city hall.
- ZONE 4: More than 50 miles but less than 80 miles from the respective city hall.
- ZONE 5: More than 80 miles from the respective city hall.

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Battery Rebuilders; Bus or Manhaul Driver; Concrete Buggies (power operated); Dunp Trucks, side, end and bottom dunps, including Semi Trucks and Trains or combinations there of: up to and including 10 cu. yds., Lift Jitneys, Fork Lifts (all sizes in loading, unloading and transporting material on job site); Loader and/or Leverman on Concrete Dry Batch Plant (manually operated); Pilot Car; Solo Flat Bed and misc. Body

Trucks, 0 - 10 tons; Truck Tender; Truck Mechanic Tender; Water Wagons (rated capacity) up to 3,000 gallons; Transit Mix and Wet or Dry Mix - 5 cu. yds. and under. "A" Frame or Hydra-lift Truck with load bearing surface; Lubrication Man, Fuel Truck Driver, Tireman, Wash Rack, Steam Cleaner or combinations; Team Driver; Slurry Truck Driver or Leverman; Tireman

GROUP 2: Flaherty Spreader Driver or Leverman; Lowbed Equipment, Flat Bed Semi-trailer, Truck and Trailers or doubles transporting equipment or wet or dry materials; Lumber Carrier Driver - Straddle Carrier (used in loading, unloading and transporting of materials on job site); Oil Distributor Driver or Leverman; Water Wagons (rated capacity) over 3,000 to 5,000 gallons; Dumpsters or similar equipment, all sizes; Transit Mix and Wet or Dry Trucks, over 5 cu. yds, and including 7 cu. yds

- GROUP 3: Dump Trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations thereof: over 10 cu. yds. and including 30 cu. yds.; Transit Mix and Wet or Dry Mix Trucks, over 7 cu. yds. and including 11 cu. yds.; Truck Mechanic-Welder-Body Repairman; Water Wagons (rated capacity) over 5,000 to 10,000 gallons
- GROUP 4: Dump Trucks, side, end and bottom cumps, including Semi-Trucks and Trains or combinations thereof: over 30 cu. yds. and including 50 cu. yds.; Transit Mix and Wet or Dry Mix Trucks, over 11 cu. yds. and including 15 cu. yds.; Water Wagon (rated capacity) over 10,000 gallons to 15,000 gallons
- GROUP 5: Dump Trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations thereof: over 50 cu. yds. and including 60 cu. yds.
- GROUP 6: Dump Trucks, side, end and bottom dumps, including Semi Trucks and Trains of combinations thereof: over 60 cu. yds. and including 80 cu. yds.
- GROUP 7: Dump Trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations thereof: over 80 cu. yds. and including 100 cu. yds.

TEAMD174A 06/01/1999

Rates Fringes CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS, MASON, PACIFIC (North of a straight line made by extending the north boundary line of Wahkiakum County west to the Pacific Ocean), PIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON AND WHATCOM COUNTIES

TRUCK DRIVERS;

| GROUP 1: | 23. 05 | 8. 21 |
|----------|--------|-------|
| GROUP 2: | 22.47 | 8. 21 |
| GROUP 3: | 20. 43 | 8. 21 |
| GROUP 4: | 16. 68 | 8. 21 |
| GROUP 5: | 22.22 | 8. 21 |

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1 - "A-frame or Hydralift" trucks and Boom trucks or similar equipment when "A" frame or "Hydralift" and Boom truck or similar equipment is used; Buggymobile; Bulk Cement Tanker; Dumpsters and similar equipment, Tournorockers, Tournowagon, Tournotrailer, Cat DW series, Terra Cobra, Le Tourneau, Westinghouse, Athye Wagon, Euclid Two and Four-Wheeled power tractor with trailer and similar top-loaded equipment transporting material: Dump Trucks, side, end and bottom dump, including semi-trucks and trains or combinations thereof with 16 yards to 30 yards capacity: Over 30 yards \$.15 per hour additional for each 10 yard increment; Explosive Truck (field mix) and similar equipment; Hyster Operators (handling bulk loose aggregates); Lowbed and Heavy Duty Trailer; Road Oil Distributor

Driver; Spreader, Flaherty Transit mix used exclusively in heavy construction; Water Wagon and Tank Truck-3,000 gallons and over capacity

GROUP 2 - Bulllifts, or similar equipment used in loading or unloading trucks, transporting materials on job site; Dumpsters, and similar equipment, Tournorockers, Tournowagon, Turnotrailer, Cat. D. W Series, Terra Cobra, Le Tourneau, Westinghouse, Athye wagon, Euclid two and four-wheeled power tractor with trailer and similar top-loaded equipment transporting material: Dump trucks, side, end and bottom dump, including semi-trucks and trains or combinations thereof with less than 16 yards capacity; Flatbed (Dual Rear Axle); Grease Truck, Fuel Truck, Greaser, Battery Service Man and/or Tire Service Man; Leverman and loader at bunkers and batch plants; Oil tank transport; Scissor truck; Slurry Truck; Sno-Go and similar equipment; Swampers; Straddler Carrier (Ross, Hyster) and similar equipment; Team Driver; Tractor (small, rubber-tired) (when used within Teamster jurisdiction); Vacuum truck; Water Wagon and Tank trucks-less than 3,000 gallons capacity; Winch Truck; Wrecker, Tow truck and similar equipment

GROUP 3 - Flatbed (single rear axle); Pickup Sweeper; Pickup Truck. (Adjust Group 3 upward by \$2.00 per hour for onsite work only)

GROUP 4 - Escort or Pilot Car

GROUP 5 - Mechanic

HAZMAT PROJECTS

Anyone working on a HAZMAT job, where HAZMAT certification is required, shall be compensated as a premium, in addition to the classification working in as follows:

LEVEL C: +8.25 per hour - This level uses an air purifying respirator or additional protective clothing.

LEVEL B: +\$.50 per hour - Uses same respirator protection as Level A. Supplied air line is provided in conjunction with a chemical "splash suit."

LEVEL A: +\$.75 per hour - This level utilizes a fully-

encapsulated suit with a self-contained breathing apparatus or a supplied air line.

ZONE DIFFERENTIALS

Zone pay will be calculated from the city center of the following listed cities:

| BELLINGHAM | CENTRALIA | RAYMOND | OLYMPIA |
|------------|---------------|-----------------|-----------|
| EVERETT | SHELTON | ANACORTES | BELLEVUE |
| SEATTLE | PORT ANGELES | MT. VERNON | KENT |
| TACOMA | PORT TOWNSEND | ABERDEEN | BREMERTON |

TRAVEL - Zone A - 0 - 25 miles - Free Zone Zone B - 25 - 45 miles - \$.70 per hour.

DACA67-99-R-0049

TEAMD760C 06/01/1999

Rates Fringes
COUNTIES FROM THE TOP OF THE CASCADE MOUNTAIN RANGE EAST: ADAMS,
ASOTIN, BENTON, CHELAN, COLUMBIA, DOUGLAS, FERRY, FRANKLIN,
GARFIELD, GRANT KITTITAS, LINCOLN, OKANOGAN, PEND OREILLE,
SPOKANE, STEVENS, WALLA WALLA, AND WHITMAN COUNTIES

TRUCK DRIVERS

(ANYONE WORKING ON HAZMAT JOBS SEE FOOTNOTE A BELOW)

ZONE 1: (INCLUDES ALL OF YAKIMA COUNTY)

| GROUP | 1 | 17. 42 | 7. 31 |
|-------|---|--------|-------|
| GROUP | 2 | 19.69 | 7. 31 |
| GROUP | 3 | 20. 19 | 7. 31 |
| GROUP | 4 | 20. 52 | 7. 31 |
| GROUP | 5 | 20.63 | 7. 31 |
| GROUP | 6 | 20. 80 | 7. 31 |
| GROUP | 7 | 21. 33 | 7. 31 |
| GROUP | 8 | 21.66 | 7. 31 |

Zone Differential (Add to Zone 1 rate: Zone 2 - \$2.00)

BASE POINTS: Spokane, Moses Lake, Pasco, Lewiston

Zone 1: 0-45 radius miles from the main post office.

Zone 2: 45 radius miles and over from the main post office

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Escort Driver or Pilot Car; Employee Haul; Power Boat Hauling Employees or Material

GROUP 2: Fish Truck; Flat Bed Truck; Fork Lift (3000 lbs. and under); Leverperson (loading trucks at bunkers); Trailer Mounted Hydro Seeder and Mulcher; Seeder & Mulcher; Stationary Fuel

Operator; Tractor (small, rubber-tired, pulling trailer or similar equipment)

GROUP 3: Auto Crane (2000 lbs. capacity); Buggy Mobile & Similar; Bulk Cement Tanks & Spreader; Dumptor (6 yds. & under); Flat Bed Truck with Hydraullic System; Fork Lift (3001-16,000 lbs.); Fuel Truck Driver, Steamcleaner & Washer; Power Operated Sweeper; Rubber-tired Tunnel Jumbo; Scissors Truck; Slurry Truck Driver; Straddle Carrier (Ross, Hyster, & similar); Tireperson; Transit Mixers & Truck Hauling Concrete (3 yd. to & including 6 yds.); Trucks, side, end, bottom & articulated end dump (3 yards to and including 6 yds.); Warehouseperson (to include shipping & receiving); Wrecker & Tow Truck

GROUP 4: A-Frame; Burner, Cutter, & Welder; Service Greaser;

Trucks, side, end, bottom & articulated end dump (over 6 yards to and including 12 yds.); Truck Mounted Hydro Seeder; Warehouseperson; Water Tank truck (0-8,000 gallons)

GROUP 5: Dumptor (over 6 yds.); Lowboy (50 tons & under); Self-loading Roll Off; Semi-Truck & Trailer; Tractor with Steer Trailer; Transit Mixers and Trucks Hauling Concrete (over 6 yds. to and including 10 yds.); Trucks, side, end, bottom and end dump (over 12 yds. to & including 20 yds.); Truck-Mounted Crane (with load bearing surface either mounted or pulled, up to 14 ton); Vacuum Truck (super sucker, guzzler, etc.)

GROUP 6: Flaherty Spreader Box Driver; Flowboys; Fork Lift (over 16,000 lbs.); Dumps (Semi-end); Mechanic (Field); Semi-end Dumps; Transfer Truck & Trailer; Transit Mixers & Trucks Hauling Concrete (over 10 yds. to & including 20 yds.); Trucks, side, end, bottom and articulated end dump (over 20 yds. to & including 40 yds.); Truck and Pup; Tournarocker, DW s & similar with 2 or more 4 wheel-power tractor with trailer, gallonage or yardage scale, whichever is greater Water Tank Truck (8,001-14,000 gallons)

GROUP 7: Oil Distributor Driver; Stringer Truck (cable opprated trailer); Transit Mixers & Trucks Hauling Concrete (over 20 yds.); Truck, side, end, bottom end dump (over 40 yds. to & including 100 yds.); Truck Mounted Crane (with load bearing surface either mounted or pulled (16 through 25 tons);

GROUP 8: Prime Movers and Stinger Truck; Trucks, side, end, bottom and articulated end dump (over 100 yds.); Helicopter Pilot Hauling Employees or Materials

Footnote A - Anyone working on a HAZMAT job, where HAZMAT certification is required, shall be compensated as a premium, in addition to the classification working in as follows:

LEVEL C-D: - \$.50 PER HOUR (This is the lowest level of protection. This level may use an air purifying respirator or additional protective clothing.

LEVEL A-B: - \$1.00 PER HOUR (Uses supplied air is conjunction with a chemical spash suit or fully encapsulated

suit with a self-contained breathing apparatus.

NOTE: Trucks Pulling Equipment Railers: shall receive \$.15/hour over applicable truck rate

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR 5.5(a)(1)(v)).

In the listing above, the "SU" designation means that rates listed under that identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

- 1.) Has there been an initial decision in the matter? This can be:
 - * an existing published wage determination
 - * a survey underlying a wage determination
 - * a Wage and Hour Division letter setting forth a position on a wage determination matter
 - * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations Wage and Hour Division
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator U.S. Department of Labor 200 Constitution Avenue, N. W. Washington, D. C. 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board U. S. Department of Labor 200 Constitution Avenue, N. W Washington, D. C. 20210

4.) All decisions by the Administrative Review Board are final. END OF GENERAL DECISION

99035/AN/ar 99R49

Demolish Golf Course Clubhouse and Cart Storage Facilities, McChord Air Force Base, Washington

DEMOLISH GOLF COURSE CLUBHOUSE AND CART STORAGE FACILITIES MCCHORD AFB, WASHINGTON

Table of Contents

- 1. Bid Schedule
- 2. Specifications Sections
 - a. Section 01000, Special Conditions
 - b. Section 02090, Lead-Based Paint (LBP) Control Procedures
 - c. Section 02115, Underground Storage Tank Removal
 - d. Section 02220, Demolition
 - e. Section 02223, Sampling and Testing
 - f. Section 13280, Asbestos Abatement
- 3. Demolition Plans
 - a. Asbestos and Lead Based Paint Survey
- 4. Reference Drawings (See Plans)
 - a. Demolition Site Plan
 - b. McD750-2708 Cons. Golf Facility (Clubhouse) (12 sheets)
 - c. 750-3622 Construct Addition Golf Clubhouse/Equipment
 - d. McD 750-3622 Const. Addn. Clubhse/Equip.
 - e. 750-3918 Alt. Golf Course Clubhouse
 - f. McD 750-4080 Golf Cart Storage Bldg. Civil/Elect
 - g. Fire Alarm System, Bldg. 888
 - h. McD750-5654 Rodeo Add Golf Clubhouse/Rodeo Repair Golf Clubhouse (13 sheets)



SECTION 01000

SPECIAL CONDITIONS

- 1. <u>SCOPE</u>: The work covered in these specifications consists of furnishing all plant, labor, equipment and materials for the demolition work at the Whispering Firs Golf Clubhouse and Cart Storage Facilities at McChord AFB, WA. The following items are a brief summary of the project and are provided solely for the purpose of revealing the general nature of the work involved. The Contractor is responsible for accomplishing all items of work in accordance with the applicable drawings, specifications and provisions of the contract. Any sundry labor, materials, equipment and/or appurtenances not specifically detailed or specified, but required to complete the project, shall be provided as an integral part of scope of work hereinafter specified.
 - 1.1 Demolish Golf Clubhouse Building 888 and Cart Storage Building 891 at the Whispering Firs Golf Course, McChord AFB, Washington. Reference drawings of the buildings are provided to show existing construction to be removed; however, the Contractor shall be required to visit the site prior to bid to ascertain existing conditions. All buildings and appurtenances are to be removed to provide a clean site.
 - 1.2 Remove and dispose of hazardous materials from these buildings, including asbestos and lead-containing materials, and an underground fuel storage tank.
 - 1.3 Provide pavement connection from existing parking lot to cart staging area, remove existing driveway, and remove sanitary, sewer and electrical lines as indicated on the demolition site plan (last page of the technical portion of this RFP).
- 2. <u>APPLICABLE PUBLICATIONS</u>: Federal, commercial and trade association publications, as listed in the separate technical provisions, form a part of this specification to the extent applicable to the work being specified. Such publications are initially listed by basic designation, current issue suffix and subject matter title but will be referred to thereafter in the technical provision by basic designation only.
- 3. <u>HOURS OF WORK:</u> Unless otherwise approved by the Contracting Officer, all work shall be accomplished between the hours of 7:30 a.m. to 4:30 p.m. daily except weekends and federal legal holidays.
- 4. <u>CONTRACT DATA</u>: The work site will be in use during the on-site work period. The Contractor shall maintain separate access from Lincoln Boulevard to the Temporary Golf Clubhouse Building and patron parking. Golf Course patron parking shall be maintained for a minimum of 50 vehicles in existing parking areas with access to the Temporary Golf Clubhouse and the Golf Course.
- 5. <u>FIRE PROTECTION:</u> The Contractor shall perform all work in a fire safe manner in accordance with 24 Mar 1993 edition of 62 AWR 92-2, FIRE PREVENTION STANDARDS DURING CONTRACT PERFORMANCE AND CIVIL ENGINEERING IN-HOUSE WORK

ACCOMPLISHMENT, available from the Base Civil Engineers. In addition, work shall be performed in accordance with NFPA 241, Safeguarding Building Construction and Demolition Operations, including Appendix A. Special attention shall be provided for welding, cutting or open flame operations in accordance with AFOSH 91-5, and 29 CFR 1910-252.

- 5.1 No welding, cutting or open flame operations are allowed in facilities when automatic fire detection and/or suppression systems are out of service.
- 5.2 Contractor will be responsible for posting a "fire guard" for 24 hours after welding, cutting and/or open flame operations have been performed, or will certify the facility as fire safe from his operations when the following occurs:
 - 5.3.1 Fire Detection / Sprinkler Systems cannot be returned to service.
 - 5.3.2 Fire Detection / Sprinkler Systems do not exist.
- 6. WASTE DISPOSAL: All spoil, waste and debris removed from the work site and not specified for reuse or identified as salvageable items, shall become the responsibility of the Contractor and shall be disposed of off-base in areas authorized by the applicable county and/or state agencies and in accordance with current rules and regulations governing the disposal of solid waste. Disposal of hazardous waste shall be in compliance with local, state and federal standards as indicated in applicable specification sections. Disposal fees and sundry changes shall be paid by the Contractor.
- 7. <u>DIGGING PERMITS</u>: Prior to any excavation, the Contractor shall obtain an approved digging permit (AF Form 103) from the Contracting Officer. Contractor shall notify the Contracting Officer five (5) days prior to the start of any excavation.
- 8. <u>SAFETY</u>: All work shall be accomplished in accordance with OSHA 29 CFR 1910, OSHA 29 1926 and applicable AFOSH Standards.
- 9. <u>PRESENCE OF ASBESTOS</u>: The building or facilities involved in this Contract have been tested for the presence of asbestos-containing material (ACM). It has been determined that this project will involve the handling and/or disposal of ACM requiring special procedures. See Specification Section 02220 DEMOLITION and/or Section 13280 ASBESTOS ABATEMENT for Contract requirements. In addition to the requirements set forth in Section 13280, the licensed asbestos removal supervisor shall remain on the construction site, evaluating suspect ACM as uncovered during the on-going demolition phase, until all demolition is completed and the potential of finding previously unidentified ACM is nil.
- 10. <u>PRESENCE OF LEAD-CONTAINING MATERIALS</u>: The building or facilities involved in this Contract have been tested for the presence of lead-containing materials. It has been determined that this project will involve the handling and/or disposal of lead-containing materials requiring special procedures. See Specification Section 02090 LEAD-BASED PAINT (LBP) ABATEMENT AND DISPOSAL for Contract requirements.
- 11. <u>OZONE DEPLETING SUBSTANCES</u>: The use of ozone-depleting substances will not be utilized during the completion of this project in accordance with Section 326 of the National Defense Authorization Act for Fiscal Year 1993 (Public Law 102-484).

- 12. POLYCHLORINATED BIPHENYL (PCB) CONTAINING BALLASTS AND FLUORESCENT LAMPS: The building or facilities involved in this Contract contain fluorescent light fixtures and associated ballasts which may or may not contain hazardous materials. The Contractor shall assume that all fluorescent light fixtures and associated ballasts are hazardous (containing PCB's) and prepare the bid/proposal accordingly. If upon execution of project, it is determined that existing fluorescent light fixtures and ballasts are non-hazardous (labeled as "No PCB's"), then disposal shall be as normal ordinary solid waste. See Specification Section 02220 DEMOLITION for specific requirements for handling and disposal of PCB containing ballasts. Dispose of fluorescent lamps at a permitted fluorescent light recycling facility.
- 13. <u>WORK LAYOUT AND SITE MANAGEMENT</u>: The Contractor shall coordinate the proposed layout of the work with the Contracting Officer and submit the following:
- 13.1 Site Plan: Prior to starting work, the contractor shall submit site plans to the Contracting Officer for approval showing the layout and details of all temporary facilities used for this contract prior to work commencing. The plan shall include the location of the safety and construction fences, location of all site trailers, equipment and material storage areas, construction entrances, trash dumpsters, temporary sanitary facilities, and worker parking areas. Site photographs prior to the start of work may be included with the plan. At completion of demolition work to the satisfaction of the Contracting Officer, the Contractor will be permitted to construct the new work, subject to design completion (see Request for Proposal NAFF53-99-R-0043 for new work design requirements).
- 13.2 Dirt and Dust Control Plan: The contractor shall submit truck and material haul routes along with a plan for controlling dirt, debris, and dust on base roadways. As a minimum, the plan shall identify the subcontractor and equipment for cleaning along the haul route and measures to reduce dirt, dust, and debris from roadways.
- 13.3 Administrative Field Offices and Material Storage Trailers: Contractor's administrative field office and storage trailers shall be in like-new condition and the exterior must be painted the base standard color (Fed. Std. 595(b) #37150 Light Beige). Locate the office and trailers behind the construction fence unless otherwise indicated on the drawings. Storage of materials/debris under the trailers is prohibited.
 - 13.4 Materiel Storage Area(s): The primary site is the construction site.
- 13.5 Dumpsters: Equip dumpsters with a secure cover and paint the dumpster the standard base color (Fed. Std. 595(b) #20062 Dark Brown). The cover shall be closed at all times, except when being loaded with trash and debris. Locate dumpsters behind the construction fence or out of the public view. Empty site dumpsters at least once a week, or as needed to keep the site free of debris and trash. If necessary, provide 208 liter (55-gallon) trash containers painted the same color, to collect debris in the construction site area. Large demolition operations can utilize the larger dumpsters which do not have a cover. Debris should not be piled higher than the sides before emptying.
- 14. <u>UTILITY OUTAGES</u>: Proposed utility outages which affect this facility and any other adjacent facilities which utilize the affected lines, shall be coordinated with the Contracting Officer fourteen (14) days prior to the start of the outage.

- 15. <u>TEMPORARY SANITATION FACILITIES</u>: The Contractor shall supply and maintain chemical toilets at the work site. All temporary sewer and sanitation facilities shall be self-contained units with both urinal(s) and toilet capabilities. Ventilate the units to control odors. Empty and clean the units at least once a week or more often if required by the Contracting Officer. The doors shall be self-closing. The exterior of the unit shall be painted to match the base color standard (Fed. Std. 595(b) #37150 Light Beige). Locate the facilities behind the construction fence or out of public view.
- 16. <u>CONSTRUCTION AND SAFETY FENCE</u>: Enclose the project work area including the contractor lay-down area, as indicated on the attached demolition site plan, with a 2.5m (8-foot) high chain-link fence with dark brown (UV light resistant) plastic fabric mesh screening (similar to tennis court screening) and gate(s). The project fence shall enclose both demolition and new facilities construction work. New facilities to be constructed are identified in the Request for Proposal NAFF53-99-R-0043. The intent of the construction fence is to block the construction from public view. The contractor shall also provide a temporary safety fence with gates and warning signs at the construction site prior to the start of work to protect the public from construction activities. The safety fence will enclose those areas not within the construction fence. Vinyl inserts are not allowed for the construction fence. The safety fence, fabricated from high-density polyethylene grid (minimum 1.1m (42-inches) high, will match the base color standard (Fed. Std. 595(b) #20062 Dark Brown), or be bright orange where it protects excavated areas. Fence shall be supported and tightly secured to steel posts located on minimum 3m (10-foot) centers. The contractor shall remove the fence from the work site upon completion of all new work.
- 17. <u>LAWN MAINTENANCE</u>: Contractor shall have all grassed areas (or annual weeds) within the construction and storage sites, mowed to a 4-inch height at least once a week during the growing season unless the grassed area is not visible to the public. Trim the grass around fences at time of grass cutting. Grass or weeds on stockpiled earth shall be maintained as described above.

18. LIST OF ATTACHMENTS (*separate file):

- a. AB-1 Hazardous Materials Abatement Plan
- b. Asbestos and Lead-based Paint Survey Report
- c. Demolition site plan
- d. Reference Drawings:
 - (1) McD750-2708 Cons. Golf Facility (Clubhouse) (12 sheets)*
 - (2) 750-3622 Construct Addition Golf Clubhouse/Equipment*
 - (3) McD 750-3622 Const. Addn. Clubhse/Equip.*
 - (4) 750-3918 Alt. Golf Course Club House*
 - (5) McD 750-4080 Golf Cart Storage Bldg. Civil/Elect.*
 - (6) Fire Alarm System, Bldg. 888*
 - (7) McD750-5654 Rodeo Add Golf Clubhouse/Rodeo Repair Golf Clubhouse (13 sheets)*

END OF SECTION

SECTION 02090

LEAD-BASED PAINT (LBP) CONTROL PROCEDURES

1 GENERAL

1.1 DESCRIPTION OF WORK

This project is not a lead abatement project; it is a demolition project that includes surfaces that mostly contain low concentrations of lead. This section deals with the handling of lead-based paint (LBP) including painted surfaces and building materials containing lead (i.e., ceramic tile in kitchen) during the demolition of the McChord Air Force Base Golf Course Clubhouse and Cart Storage buildings. This section also outlines the environmental protection procedures and employee exposure assessment requirements for all construction workers during this project.

All painted surfaces within the Golf Course Clubhouse and Cart Storage buildings are presumed to contain measurable concentrations of lead. During demolition, engineering controls to control dust will be required as referenced in specifications.

The contractor shall furnish all labor, materials, services, training, insurance, and equipment as needed to perform the demolition of the Clubhouse and Cart Storage buildings with respect to LBP as described herein and shown on the survey drawings. The contractor shall follow all federal, state, and local ordinances, regulations, and rules pertaining to lead, including storage, transportation, and disposal.

This section also includes the requirements of the contractor to provide employee exposure assessments in accordance to all applicable regulations. Employee exposure assessments are required for all construction workers that come into contact with lead based paint and/or lead containing building materials. Refer to plan AB-1 for additional information.

Supplemental report; Asbestos, Lead, and PCB Light Ballast Survey dated January 14, 1999 and prepared by Med-Tox Northwest, is available for review upon request to the contracting officer. This document identifies the lead concentration in tested building components at the facility.

1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only. Where conflict among requirements or with these specifications exists, the more stringent requirements shall apply.

CODE OF FEDERAL REGULATIONS (CFR)

| 29 CFR 1910 | Occupational Safety and Health Standards |
|-------------|--|
| 29 CFR 1926 | Safety and Health Regulations for Construction |
| 40 CFR 148 | Hazardous Waste Injection Restrictions |
| 40 CFR 260 | Hazardous Waste Management System: General |

| 40 CFR 261 | Identification and Listing of Hazardous Waste |
|------------|--|
| 40 CFR 262 | Standards Applicable to Generators of Hazardous Waste |
| 40 CFR 263 | Standards Applicable to Transporters of Hazardous Waste |
| 40 CFR 264 | Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities |
| 40 CFR 265 | Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities |
| 40 CFR 268 | Land Disposal Restrictions |
| 49 CFR 172 | Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, and Training Requirements |
| 49 CFR 178 | Specifications for Packagings |

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT (HUD)

HUD-01 (1996) Lead-Based Paint: Guidelines for the Availability and Control of

Lead-Based Paint Hazards in Housing

ENGINEERING MANUALS (EM)

EM 385-1-1 (1992) U.S. Army Corps of Engineers Safety and Health Requirements

Manual

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 701 (1996) Methods of Fire Test for Flame-Resistant Textiles and Films

NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH)

NIOSH OSHA Booklet 3142 Lead in Construction

UNDERWRITERS LABORATORIES (UL)

UL 586 (1996) High-Efficiency, Particulate, Air Filter Units

1.3 SUBMITTALS

Submit the following in accordance with Section 01300, Special Conditions. Approval by the contracting officer is required of the following submittals prior to commencement of work.

- 1.3.1 Submit a statement which demonstrates the Offeror's qualifications and experience as a firm of established reputation, regularly engaged in or has workers trained in demolition of materials containing lead, and which has successfully performed similar demolition work on comparable previous projects. The statement shall include, as a minimum:
 - A. Years firm has been engaged in demolition LBP work. Acceptable experience shall include LBP work on comparable projects, unless special qualifying information acceptable to the Contracting Officer is provided to indicate that other experience is acceptable.
 - B. A list of projects performed that are similar to this project. **Comparable work includes the monitoring of workers, protection of environment, and proper waste characterization and disposal of wastes.** Include name, address and telephone numbers of the purchaser(s) of services; the industrial hygienist, if any, overseeing the work; location; and type and physical amount of work.
- 1.3.2 A description of the qualifications and experience of all supervisors (such as project managers, on-site supervisors, foremen, etc.) proposed for this project, including:
 - A. A statement of the qualifications and experience of the workforce, including a description of the LBP training program for the workforce.
 - B. Industrial hygienist(s) and industrial hygiene technicians. A statement of the qualifications and experience of the industrial hygienist(s) and, if used, industrial hygiene technicians, including:
 - 1. A record of experience qualifying the industrial hygienist(s) as a professional and specialist in LBP abatement/work. As a minimum this shall include at least 2 years of industrial hygiene experience in LBP project inspection. Include the name and address of the purchaser of the service, location of the work performed, and a review of the industrial hygiene activities performed for each such project in the last 2 years.
 - 2. If an industrial hygiene technician(s) will participate in this project, a description, for each technician, of training in air monitoring and a review of previous air monitoring experience in LBP projects. Include the name and address of the service provider, location of the work performed and a review of all air monitoring and other inspection activities performed for each such project in the last 2 years.
- 1.3.3 C. The contractor's Personal Protective Equipment (PPE) Program including its Respiratory Protection Program shall be submitted. Minimum qualifications are as specified in 29 CFR 1926.62.
- 1.3.4 A list of all LBP equipment, tools and materials available for use on this project. Include certification by manufacturers that all HEPA equipment meets ANSI Z9.2.

- 1.3.5 A description of the Offeror's medical surveillance program for persons under the supervisory control of the contractor who may be occupationally exposed to airborne lead dust or other hazardous substances under this contract. Minimal qualifications shall be as specified in 29 CFR 1926.62.
- 1.3.6 A statement containing the following information:
 - A. A record of any citations, fines, settlements or confirmed violations issued by any regulatory or legal agency concerning performance on hazardous materials work contracts in the last 3 years. For each such occurrence, describe the circumstances, citing the project, persons involved, type of action, stoppage of work (if any) agency involved, and resolution.
 - B. A list of all occasions in the last 3 years in which the contractor has been issued a Stop Work Order due to negligence or noncompliance with LBP or other hazardous materials related project specifications. Briefly describe the circumstances and outcome of each occurrence, including liquidated damages, overruns in scheduled time limitations, and resolution.
 - C. A description of all situations in the last 3 years in which a hazardous materialsrelated contract has been terminated, specifying project, dates and reasons for termination.
 - D. Listing of any hazardous materials-related litigation or arbitration in the last 3 years in which the Offeror (or any of its employees proposed for work on this project) has participated or is currently involved arising out of performance on a LBP related contract. Include descriptions of role, issue, and resolution to date including any liquidated damages assessed. Note that participation in litigation or arbitration is not in itself a disqualifying factor, since, for example, it may reflect assertion of Offeror's rights.
- 1.3.7 A statement regarding the Offeror's insurance status, including:
 - A. Proof of coverage under the State Workers Compensation insurance system.
 - B. Certificate of general liability insurance. Submit insurance in accordance to Division One of this specification, including pollution specific insurance for LBP activities.
- 1.3.8 Submit a plan of action for handling LBP throughout the project. This plan shall contain at least:
 - A. Overall statement of procedures proposed for use in complying with the regulations and requirements included in this specification.
- 1.3.9 Submit the contractor's Lead Exposure Compliance Program. Minimum requirements are specified in 29 CFR 1926.62(e)(2).
- 1.3.10 The description of the quality assurance program, to include at least:

- A. Measures to assure control of unsafe or unhealthy conditions, ensure low levels of lead inside and outside the work area, and prevent release of lead dust outside the work area.
- B. Waste cleanup procedures and disposal plan, including on-site waste packaging method, name and location of disposal site(s), each having a U.S. Environmental Protection Agency (EPA) Identification Number as a hazardous waste disposal site; and copies of applicable Identification Numbers, certificates and registrations for hazardous waste transporter(s), transferor(s), treater(s) and disposal site(s).
- C. Methods to be used to assure the protection of the safety and health of building occupants and visitors to the site from the effects of work under this contract.

1.3.11 Emergencies:

- A. The contractor shall develop procedures to be followed in the event of unexpected circumstances, including, but not limited to, fire, electric shock, life-threatening bodily injury inside or outside of the work area, the detection of airborne lead levels that exceed the OSHA action level outside the work area, or splitting/spilling of lead waste bags in route to the waste truck.
- B. Contact information, including a list of names and telephone numbers (with area codes) of the contractor's contact persons, the Contracting Officer, LBP Program Manager, and other contact persons as designated by the Contracting Officer, the fire department, police department, general emergency number (if used), and local hospital or similar emergency care unit, shall be available to the contractor's employees at all times work is performed. A copy of this emergency contact information is to be kept at the job site, available for inspection by the Contracting Officer and/or Authorized Visitor, and updated as required.

1.3.12 Materials:

- A. Submit the Material Safety Data Sheets (MSDSs) for any materials brought to the facility site, for which MSDSs are provided.
- 1.3.13 Submit a statement describing the proposed organization of the demolition/LBP work, including:
 - A. Sequencing of demolition/LBP work.
 - B. Length and projected times of day of work shifts.
 - C. Interface of trades involved in the work.
 - D. A detailed description of any proposed methods of special LBP handling procedures, where used.
 - E. Submit a statement describing the proposed environmental monitoring program.
- 1.3.14 The contractor shall provide a statement describing that the proposed work force meets the requirements of 29 CFR 1926.62 for medical requirements and monitoring. Show

proof that each person under the supervisory control of the contractor have been notified that they may be occupationally exposed to airborne lead levels.

- 1.3.15 Provide regulatory agencies with project notifications.
 - A. Documentation that all required permits, certificates, licenses, and other arrangements for transportation, treatment, storage and disposal and in accordance with applicable regulations in one or more approved sites have been obtained.
 - B. A statement that all commercial licenses required, if any, have been procured by the contractor, who will comply with their provisions, holding McChord Air Force Base harmless for deficiencies and/or failures thereto.
- 2 PRODUCTS (NOT APPLICABLE)
- 3 EXECUTION
- 3.1 WORK PROCEDURES

Demolition/LBP control and related work shall be performed in accordance with the accepted Contractor's LBP Plan of Action as modified and approved. Procedures and equipment required to limit occupational and environmental exposures to lead during Demolition/LBP control shall be in accordance with 29 CFR 1926 Section .62, and as specified herein.

3.2 WORK AREA PREPARATION

- 3.2.1 The contractor shall post adequate warning signs denoting the potential danger of lead at designated entrances to work areas, including, as a minimum, those described at 29 CFR 1926.62(m), and State occupational safety and health and fire safety regulations (where applicable). The contractor shall prevent access to posted areas by unauthorized or inadequately protected persons.
- 3.2.2 Adequate portable fire extinguisher equipment shall be maintained within the work area meeting at least the requirements of 29 CFR 1910.157.

3.3 WORK AREA ISOLATION

- 3.3.1 Provide control procedures to assure lead air concentrations will be below 30 μ g/m³ outside of the lead control area.
- 3.3.2 From the time the contractor is ready to begin demolition work until all barriers are removed, all personnel, equipment, materials, and waste containers leaving the work area shall be decontaminated as per applicable provisions of this contract.

3.4 CONTAMINATED EQUIPMENT, SHOWER, LUNCHROOM AND CLEAN AREAS

3.4.1 Set up a hand washing station, and clean and eating areas in accordance to 29 CFR 1926.62. If exposures to lead are above or expected to be above the permissible exposure limit of $50 \mu g/m^3$, provide and maintain a decontamination facility including showers with hot and cold water in accordance with 29 CFR 1926.62.

3.5 CLEAN-UP

- 3.5.1 Debris from demolition shall be stored in the designated area until waste characterization is completed. This debris shall be removed according to this specification.
- 3.5.2 The contractor shall contain and properly dispose of all liquid waste, including lead-contaminated wash water and any water used during the demolition process as an engineering control.

3.6 MONITORING

- 3.7 LEAD EXPOSURE ASSESSMENT AND AIR MONITORING REQUIREMENTS BY CONTRACTOR
- 3.7.1 All air monitoring shall be performed under the supervision of a certified industrial hygienist. Personnel and procedures are subject to approval of the Contracting Officer.
 - A. The contractor shall perform an employee lead exposure assessment to determine if any employee is exposed to lead at or above the action level, in accordance with 29 CFR 1926.62(d).
 - B. Public area samples shall be taken outside the work area within 10 feet of work area barriers. Samples shall be taken every day while the LBP demolition work is being performed and shall include at least one upwind and one downwind sample. Air sampling results shall be provided to the contracting officer within 2 working days after sampling is complete.
 - C. The contractor shall notify the Contracting Officer immediately of exposure to lead at or in excess of the action level of 30 $\mu g/m^3$ of air outside of the lead control area.
 - D. The contractor shall furnish and maintain all monitoring equipment and shall show calibration records. The contractor shall bear all costs of air monitoring, analysis, and reporting required herein.
 - E. Documentation on each sample shall include at least the date and time, sample number, exact sampling location, printed name and signature of each sampler, a description of work being performed at the time of sampling, sampling rate, sampling volume and method of analysis.
 - F. Airborne lead samples shall be analyzed by a laboratory qualified by the American Industrial Hygiene Association's Laboratory Accreditation Program for metals on filters. The contractor shall submit signed permanent laboratory records

of all analyses to the Contracting Officer within two weeks of the date of each analysis.

3.8 INSPECTIONS AND AIR MONITORING BY THE CONTRACTING OFFICER

- 3.8.1 The Contracting Officer/Authorized Representative may perform site visits and inspections. The Contracting Officer may be performing worker and/or area air sampling inside and immediately adjacent to the work area during work.
 - A. If, at any time, the Contracting Officer determines that contractor practices or procedures are in violation of the provisions of this contract or are endangering workers, visitors, or the general public, the Contracting Officer will immediately notify the contractor orally that corrective action shall be taken. The contractor shall not be allowed any extension of time or compensation for damages by reason of or in connection with such work stoppages.
 - B. If personal or work area lead concentrations are measured above the permissible exposure limit (PEL) or concentrations outside of the work area are above the OSHA action level (or the background level, whichever is higher), all work in that work area shall stop and the contractor shall undertake corrective action as approved by the Contracting Officer. The contractor may resume work only after it receives written authorization from the Contracting Officer. The contractor shall not be allowed any extension of time or compensation for damages by reason of or in connection with such work stoppages.

3.9 WASTE DISPOSAL

- 3.9.1 The contractor shall test representative demolition waste stream(s)to determine if materials are regulated under RCRA, 40 CFR Part 261. The contractor shall use the toxicity characteristic leaching procedure (TCLP) to determine if a lead contaminated material is regulated under RCRA. The TCLP analysis must include a minimum of the following four metals: barium, cadmium, chromium, and lead. If the TCLP determines that the lead concentration is 5 parts per million or greater, barium is 5 ppm or greater, cadmium is 2 ppm or greater, or that chromium is 100 ppm or greater, the waste is regulated by RCRA. The Contracting Officer or authorized representative may also take and analyze samples.
- 3.9.2 The following materials shall be tested to determine whether or not they are classified as hazardous waste or shall be presumed to be:

Woodwork, sheetrock, windows, cement masonry unit walls, painted concrete, doors, and other components included in the waste stream from demolished buildings, plastic sheets, duct tape, or tape used during the demolition work, disposable work clothes, respirator filters, and any other items contaminated with lead.

3.10 CONTAMINATED WASTE

- 3.10.1 Lead-contaminated waste, scrap, and debris shall be disposed of as follows:
 - A. Lead-contaminated waste, scrap, debris, bags, containers, equipment, and lead-contaminated clothing, which may produce airborne concentrations of lead

particles shall be stored in U.S. Department of Transportation CFR 49 Part 178 approved 55 gallon drums. Each drum shall be labeled to identify the type of waste as defined in CFR 49 Part 172 and the date lead-contaminated wastes were first put into the drum. The Uniform Hazardous Waste Manifest forms from Federal and state agencies shall be obtained and completed. Land disposal restriction notifications shall be as required by CFR 40 Part 268. The Contracting Officer shall be notified at least 14 days prior to delivery to arrange for job site inspection of the drums and manifests. Lot deliveries of hazardous wastes shall be made as needed to ensure that drums do not remain on the work site longer than 90 calendar days from the date affixed to each drum. The Contracting Officer will assign an area for interim storage of waste-containing drums.

- B. Lead-contaminated waste shall be handled, stored, transported, and disposed of in accordance with CFR 40 Part 260, CFR 40 Part 261, CFR 40 Part 262, CFR 40 Part 263, CFR 40 Part 264, and CFR 40 Part 265. Land disposal restriction notification shall be as required by CFR 40 Part 268.
- 3.10.2 The contractor shall dispose of <u>nonhazardous solid waste</u> (as determined by testing) as follows:
 - A. Solid waste which has been evaluated and determined not to be hazardous can be disposed of in a State approved landfill in accordance with Section 02050.
- 3.10.3 Hazardous waste manifests.
 - A. Upon submitting the hazardous waste manifests for a shipment of LBP waste to the Contracting Officer for signature, the contractor shall make available the transport vehicle and the lead-contaminated waste packages for inspection by the Contracting Officer so that the Contracting Officer can check for significant discrepancies in the amount of waste (for example, number of bags or drums, or volume of waste) and its condition (for example, whether the bags or drums appear to be sealed and not leaking).
 - B. Hazardous waste manifests signed by McChord Air Force Base Environmental Office, the contractor, and the initial transporter shall be provided to the Contracting Officer and the McChord Air Force Base Environmental Office when lead-contaminated wastes are removed from the facility property.
 - C. Completed waste manifest(s) signed by the contractor, all transporter(s), transferor(s), disposal and/or conversion facility(ies), shall be provided to the Contracting Officer and the McChord Air Force Base Environmental Office within 30 days of the time at which the lead-contaminated wastes are received at the disposal facility(ies), which shall be no longer than 40 days after the waste was accepted by the initial transporter.

3.10.4 The contractor shall:

A. Properly transport, treat, store, and dispose of lead-contaminated waste and other hazardous wastes generated in accordance with the contract and all applicable regulations.

- B. Notify the National Response Center (800-424-8802) of the release of a reportable quantity of a hazardous substance generated in accordance with the contract (40 CFR 302.4 302.6(a),(b)).
- C. Hold McChord Air Force Base harmless from any release or threat of release following its acceptance of any hazardous substance generated in accordance with the contract (CERCLA sections 101(20)(B)(I), 107(a)(4),(b),(e)).

3.10.5 Payment for Hazardous Waste

A. Payment for disposal of hazardous waste will not be made until a signed copy of the manifest from the treatment or disposal facility, certifying the amount of lead-containing materials delivered, is returned and a copy is furnished to the Government.

END OF SECTION

SECTION 02115

UNDERGROUND STORAGE TANK REMOVAL

1.1 REFERENCES

The publications listed below form a part of this section to the extent referenced. The publications are referenced in the text by basic designation only.

WASHINGTON ADMINISTRATIVE CODE

Chapter 173-340 WAC (1996) The Model Toxics Control Act Cleanup Regulation

Chapter 173-303 WAC (1998) Dangerous Waste Regulations

AMERICAN PETROLEUM INSTITUTE (API)

| API Publ 2217A (| (1987) | Guidelines for Work in Inert Confined Spaces in |
|------------------|--------|---|
| | | |

the Petroleum Industry

API Publ 2219 (1986) Safe Operation of Vacuum Trucks in Petroleum

Service

API RP 1604 (1996) Closure of Underground Petroleum Storage

Tanks

API RP 2003 (1991) Protection Against Ignitions Arising out of Static,

Lightning, and Stray Currents

API Std 2015 (1994) Safe Entry and Cleaning of Petroleum Storage

Tanks

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

| ASTM D 1556 | (1990; R 1996) Densit | y and Unit Weight of Soil in Place |
|-------------|-----------------------|------------------------------------|
|-------------|-----------------------|------------------------------------|

by the Sand-Cone Method

ASTM D 1557 (1991) Laboratory Compaction Characteristics of Soil

Using Modified Effort (56,000 ft-lbf/cu. ft. (2,700 kN-

m/cu. m.))

ASTM D 2167 (1994) Density and Unit Weight of Soil in Place by the

Rubber Balloon Method

ASTM D 2487 (1993) Classification of Soils for Engineering Purposes

(Unified Soil Classification System)

ASTM D 2922 (1996) Density of Soil and Soil-Aggregate in Place by

Nuclear Methods (Shallow Depth)

ASTM D 3017 (1988; R 1993) Water Content of Soil and Rock in Place

by Nuclear Methods (Shallow Depth)

CODE OF FEDERAL REGULATIONS (CFR)

| 40 CFR 261 | Identification and Listing of Hazardous Waste |
|------------|--|
| 40 CFR 262 | Standards Applicable to Generators of Hazardous Waste |
| 40 CFR 264 | Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities |
| 40 CFR 265 | Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities |
| 40 CFR 266 | Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities |
| 40 CFR 268 | Land Disposal Restrictions |
| 40 CFR 279 | Standards for the Management of Used Oil |
| 40 CFR 280 | Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks (UST) |

US ARMY REGULATIONS

EM 385-1-1 US Army Corps Health and Safety Manual

1.2 MEASUREMENT AND PAYMENT

Compensation for removal of contaminated soil and pumpable liquids shall be paid as a unit cost. This unit cost includes testing, excavation, stockpiling, transportation and disposal of the contaminated soil and backfilling with non-contaminated soil. Payment for all other work shall be under the base bid for the tank removal and shall constitute full payment for all work defined in the contract documents including testing of the contents, excavation and disposal of the tank, and testing of the underlying soil.

1.3 SUBMITTALS

Government approval is required for submittals with a "GA" designation, submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with SECTION 01330 SUBMITTAL PROCEDURES:

SD-01 Data

Work Plan; GA.

The Work Plan within 21days after notice to proceed. The Contractor shall allow 30 days in the schedule for the Government's review and approval. No adjustment for time or money will be made for resubmittals required as a result of noncompliance.

SD-08 Statements

Qualifications; GA.

A document indicating that the Contractor meets the specified requirements.

SD-09 Reports

Backfill Material; GA. Tank Contents Verification; GA. Contaminated Water Disposal; GA. Soil Examination, Testing, and Analysis; GA.

Reports including the chain-of-custody records.

Backfilling; GA.

Copies of all laboratory and field test reports.

Tank Closure Report;

Three copies of the report for each UST site opened, prepared in a standard 3-ring binder, within 14 days of completing work at each site. Each binder shall be labeled with contract number, project name, location and tank number; each binder shall be indexed. A copy of the report shall be furnished to the Installation Environmental Coordinator.

SD-18 Records

Salvage Rights:

A record of the disposition of salvaged materials at the end of the contract.

1.4 QUALIFICATIONS

The Contractor shall have a minimum of 2 years of tank removal experience and shall be certified by the State of Washington for tank removal work.

1.4.1 Laboratory Services

For laboratory services the Contractor shall be validated in accordance with state certification requirements (State of Washington) or U.S. Army Corps certified for the required petroleum analyses.

1.4.2 Support Staff

The Contractor shall identify all staff involved for the various components, including personnel collecting and shipping samples. The qualifications of these staff members shall be detailed by the Contractor.

1.5 REGULATORY REQUIREMENTS

1.5.1 Permits and Licenses

The Contractor, as required or as directed by the Contracting Officer, shall obtain local, state, or federal permits and licenses that directly impact the Contractor's ability to perform the work prior to commencing removal operations.

1.5.2 Statutes and Regulations

Tank closures shall be carried out in accordance with 40 CFR 280, 40 CFR 262, 40 CFR 264, and 40 CFR 265 as well as the applicable local and State of Washington regulations. Hazardous material waste shall be transported in accordance with Section 02120 TRANSPORTATION AND DISPOSAL OF HAZARDOUS MATERIALS.

1.6 PROJECT/SITE CONDITIONS

The work shall consist of removal, decontamination and disposal of one 1,500 gallon underground storage tank and associated piping and ancillary equipment. The tank is constructed of steel fiberglass and is at the location shown on the drawings. The 1,500 gallon tank was used for storing fuel oil. The Contractor shall verify the actual conditions (including soil and groundwater conditions) prior to submitting a bid. The site is not a hazardous waste site but shall be given special consideration due to the nature of the materials and hazards present until closure activities are complete.

1.6.1 Sequencing and Scheduling

The Contractor shall notify the Installation Environmental Coordinator and the Contracting Officer 10 days prior to tank removal. The Contractor shall be responsible for contacting the Implementation Agency (IA) in accordance with the applicable reporting requirements.

1.6.2 Work Plan

The Contractor shall develop, implement, maintain, and supervise as part of the work, a comprehensive plan for tank removal and related operations. As a minimum the plan shall include, but not be limited to, excavation, removal, and ultimate disposal of the tank, its contents, and any contaminated materials. The Work Plan shall be based on work experience, on the requirements of this specification, and on the following references:

- a. API RP 1604.
- b. API Std 2015.
- c. API RP 2003.

- d. API Publ 2217A.
- e. API Publ 2219.

No work at the site, with the exception of site inspections and mobilization, shall be performed until the Work Plan is approved. At a minimum, the Work Plan shall include:

- a. Discussion of the removal approach, tank cleaning, and tank cutting procedures.
- b. A Sampling and Analysis Plan prepared in accordance with Section: 01450 CHEMICAL DATA QUALITY CONTROL.
- c. Methods to be employed for product, sludge, vapor, and pumpable liquid removal; purging and inerting; and storage methods proposed for control of surface water.
- d. Treatment options.
- e. Identification of waste, tank and contaminated soil transporters and means of transportation.
- f. Treatment, disposal, and alternate facilities, and means of treatment, disposal or remediation.
- g. Borrow source.
- h. Spill prevention plan.
- i. Spill contingency plan.
- j. Decontamination procedures shall be in accordance with API 2015, API 2217, and EM 385-1-1.

2 PRODUCTS

2.1 BACKFILL MATERIAL

Backfill material shall be obtained from the location indicated on the drawings. Backfill shall be classified in accordance with ASTM D 2487 as GW, GP, GM, GC, SW, SP, SM, SC, MH, CL, or CH and shall be free from roots and other organic matter, trash, debris, snow, ice or frozen materials. If off-site materials are used, soil classification test results shall be approved prior to bringing the material onsite. The testing frequency for backfill material shall be 1 per 1000 cubic yards or a minimum of 1 test. Non-contaminated material removed from the excavation shall be used for backfill in accordance with Paragraph BACKFILLING.

3 EXECUTION

3.1 GENERAL REQUIREMENTS

3.1.1 Safety Guidelines

Personnel shall abide by the safety guidelines specified in EM 385-1-1, Accident Prevention Plan.

3.1.2 Burning and Explosives

Use of explosives or burning debris will not be allowed.

3.1.3 Protection of Existing Structures and Utilities

The Contractor shall take all necessary precautions to avoid damage to existing structures, their appurtenances, monitoring wells, or utilities that may be affected by work activities. Any damage to utilities resulting from the Contractor's operations shall be repaired at no expense to the Government. The Contractor shall coordinate with the installation to locate underground utilities prior to beginning construction. Utilities encountered which were not previously shown or otherwise located shall not be disturbed without approval from the Contracting Officer.

3.1.4 Shoring

Shoring requirements shall be provided in accordance with EM 385-1-1 (278).

3.2 TANK CONTENTS VERIFICATION

Sampling and analysis shall be conducted in accordance with the approved sampling plan included in Section 02223, SAMPLING AND TESTING.

3.3 CLEARING, GRUBBING AND REMOVALS

Clearing and grubbing shall be in accordance with Section 02230 CLEARING AND GRUBBING. Areas designated for clearing and grubbing as required and directed by the Contracting Officer shall be cleared of all trees, stumps, down timber, brush, rubbish, roots larger than 3 inches in diameter, and matted roots prior to commencing operations. Concrete or asphalt pavement shall be saw cut at the limits of removal, broken and removed with the resulting debris disposed at the location shown on the drawings. Chain link fence shall be removed and salvaged for reuse.

3.4 TOPSOIL

Uncontaminated topsoil shall be stripped and stockpiled separately for reuse at a location approved by the Contracting Officer if it meets the requirements of clean fill given in Paragraph BACKFILLING. Additional topsoil in excess of that produced by excavation shall be obtained from designated location onsite. All areas disturbed by tank removal operations, other than areas to receive pavement or similar surface under this contract, shall be topsoiled. Topsoil shall be used wherever shown or stated on the drawings.

3.5 PREPARATIONS FOR EXCAVATION

Before excavating, the Contractor shall drain product piping back to the tank and remove all product from the tank; and the tank shall be purged and vented in accordance with API RP 1604, and as specified herein.

3.5.1 Removal of Product, Pumpable Liquids, and Sludge

Tank product, pumpable liquids, and sludge shall be contained, and stored onsite, prior to disposal. Contaminated water shall be treated as specified. Tank product, pumpable liquids, and sludge shall be analyzed and segregated to recover reusable products by the Contractor prior to being transported to the treatment, storage and disposal (TSD) facility. Tank product, pumpable liquids, and sludge shall be removed and disposed of by the Contractor. No Government facilities shall be used for permanent storage or disposal of the wastes. Temporary storage on Government facilities will be allowed only until testing is complete, manifests (if necessary) are complete, and transportation is arranged. The Contractor shall be responsible for obtaining all required permits. Usable product shall be the property of the Contractor. The Contractor shall provide approved containers, vehicles, equipment, labor, signs, labels, placards and manifests and associated land disposal restriction notices and notifications, necessary for accomplishment of the work, including materials necessary for cleaning up spills that could occur from tank removal operations.

3.5.2 Contaminated Water Disposal

3.5.2.1 Sampling, Analysis, and Containment

Contaminated water shall be sampled and analyzed both prior to and after treatment (see Specification Section 02223, SAMPLING AND TESTING). Sampling and analysis shall be performed prior to discharge to the installation sanitary sewer for every 50,000 gallons of contaminated water treated. Analysis for contaminated water to be taken to an off-site treatment facility shall conform to the requirements of the treatment facility with documentation of all analyses performed furnished to the Contracting Officer in accordance with paragraph RECORDS. Contaminated water shall be contained, stored onsite, and analyzed and disposed of by the Contractor in accordance with applicable Federal and state disposal regulations. The Contractor shall provide approved containers, vehicles, equipment, labor, signs, labels, placards and manifests and associated land disposal notices and notifications, necessary for accomplishment of the work.

3.5.2.2 Treatment

Contaminated water shall be treated off-site by oil water separation or other means as approved by the Contracting Officer. Water shall be disposed off-site. Disposal documentation shall be included in the final closure report.

3.6 PURGING AND INERTING

After the tank and piping contents have been removed, but prior to excavation beyond the top of the tank, the Contractor shall disconnect all the piping (except the piping needed to purge or inert the tank). Flammable and toxic vapors shall be purged from the tank or the tank made inert in accordance with API RP 1604, with the exceptions that filling with water shall not be used and, if dry ice is employed, the Contractor shall use a minimum of 3 pounds per

100 gallons of tank volume. The tank atmosphere shall be continuously monitored for combustible vapors if the tank is purged, or continuously monitored for oxygen if the tank is inerted.

3.7 EXCAVATION

Excavation areas, as well as work near roadways, shall be marked in accordance with APP (385-1-1).

3.7.1 Exploratory Trenches

Exploratory trenches shall be excavated as necessary to determine the tank location, limits and the location of ancillary equipment.

3.7.2 Tank Excavation

Excavation around the perimeter of the tank shall be performed limiting the amount of potentially petroleum contaminated soil that could be mixed with previously uncontaminated soil. Petroleum contaminated soil shall be segregated in separate stockpiles. The Contractor shall maintain around the tank an excavation of sufficient size to allow workers ample room to complete the work, but also protect the workers from sliding or cave-ins. Sheeting, bracing, or shoring shall be installed in the absence of adequate side slopes if there is a need for workers to enter the excavated area. Surface water shall be diverted to prevent direct entry into the excavation. Dewatering of the excavation may require a discharge permit by the State and shall be limited to allow adequate access to the tank and piping, to assure a safe excavation, and to ensure that compaction and moisture requirements are met during backfilling. Dewatering may result in the production of petroleum contaminated water and/or free product. Free product shall be recovered from the groundwater only as part of necessary dewatering.

3.7.3 Piping Excavation

Excavation shall be performed as necessary to remove tank piping and ancillary equipment in accordance with paragraphs: Shoring, Tank Excavation, and Open Excavations.

3.7.4 Open Excavations

Open excavations and stockpile areas shall be secured while awaiting confirmation test results from the soil beneath the tank. The excavation shall be backfilled as soon as possible after tank and contaminated soil removals have been completed and confirmation samples have been taken. The Contractor shall divert surface water around excavations to prevent water from directly entering into the excavation.

3.7.5 Stockpiles

Uncontaminated excavated soil and petroleum contaminated soil that is not a state-regulated hazardous waste shall be stockpiled and used for backfill in the tank excavation prior to using borrow material. Excavated material that is regulated by the state as a hazardous waste which is visibly stained for which real time vapor monitoring instrument readings exceed 10 ppm for volatile and possibly semi-volatile hydrocarbons depending on the performance criteria for the field screening method and which has an obvious petroleum odor or as

required by the State of Washington or implementing agency shall be considered contaminated and shall be stockpiled if the site is a RCRA-designated CAMU for sampling in accordance with paragraph Stockpiled Material Sampling. Uncontaminated soil shall be stockpiled separately from the contaminated soil, a safe distance away from, but adjacent to, the excavation. Allowable stockpiles of contaminated soil shall be placed on an impermeable geomembrane, 10 mils thick and covered with same. The geomembrane shall be placed to prevent the stockpiled soil from coming into contact with surface water run-off. The geomembrane cover shall prevent rain or surface water from coming into contact with the contaminated soil, as well as limit the escape of the volatile constituents in the stockpile.

3.8 REMOVAL OF PIPING, ANCILLARY EQUIPMENT, AND TANK

3.8.1 Piping and Ancillary Equipment

All piping and ancillary equipment shall be disconnected from the tank. The piping shall be removed to the exterior surface of the tank, where it shall be capped and abandoned in place or as directed by the Contracting Officer. All tank ancillary equipment and piping connections shall be capped, except those connections necessary to inert the tank within the excavation zone. The piping exterior and ancillary equipment shall be cleaned to remove all soil and inspected for signs of corrosion and leakage. The Contractor shall ensure no spillage of the piping contents occurs, as specified in the Work Plan, and as required in paragraph SPILLS. If the soil under and around the tank pad is contaminated, the tank pad shall be removed and disposed of off-site at an approved non-hazardous waste facility. Not contaminated, the tank pad shall remain in place.

3.8.2 Tank

The tank shall be removed from the excavation and the exterior cleaned to remove all soil and inspected for signs of corrosion, structural damage, or leakage. All materials coming into contact with the tank, or in the vicinity of the excavation such as shovels, slings and tools shall be of the non-sparking type. After removal from the excavation, the tank shall be placed on a level surface adjacent to the tank excavation and secured with wood blocks to prevent movement.

3.8.3 Contaminated Soil, Tank and Piping Excavation Examination

After the tank has been removed from the ground, the adjacent and underlying soil shall be examined for any evidence of leakage. The soil shall be visually inspected for staining after removal of all obviously contaminated soil, then screened for the presence of volatile and/or semi-volatile contamination using a real time vapor monitoring instrument. Uncontaminated soil or petroleum contaminated soil not regulated by the state as hazardous waste shall be stockpiled onsite per paragraph Stockpiles. Contaminated soil or suspected contaminated soil shall be containerized. The Contracting Officer shall determine the extent of the contaminated soil to be removed. If minimal additional excavation is required, the Contracting Officer may allow the Contractor to proceed. If extensive contamination is encountered, the excavation shall be sampled and backfilled in accordance with paragraph BACKFILLING. After the known contaminated soil is removed, the excavation shall be sampled and analyzed in accordance with Section 01450 CHEMICAL DATA QUALITY CONTROL.

3.9 TANK CLEANING

3.9.1 Exterior

Soil shall be removed from the exterior of the tank, piping, and associated equipment to eliminate soil deposition on roadways during transportation to a temporary storage area, ensure markings will adhere to the surfaces, and simplify tank cutting. Soil shall be removed using non-sparking tools. Removed uncontaminated soil and soil not regulated by the state as a hazardous waste shall be recovered and used as backfill in the former tank excavation] or disposed of onsite. Soil believed to be contaminated shall be removed and containerized.

3.9.2 Temporary Storage

If the tank is stored after the tank exterior is cleaned and ancillary equipment is removed, and prior to being cut into sections, the tank shall be labeled as directed in API RP 1604, placed on blocks, and temporarily stored on a flat area adjacent to the excavation. Prior to cleaning the tank interior the tank atmosphere shall be monitored for combustible vapors and purged or inerted if combustible vapors are detected.

3.9.3 Interior

The tank interior shall be cleaned using a high pressure (greater than 500 psi), low volume (less than 2 gpm) water spray or steam cleaned until all loose scale and sludge is removed, and contamination, in the form of a sheen, is no longer visible in the effluent stream. The interior surfaces of piping shall also be cleaned, to the extent possible, using the same method used for cleaning the tank. Contaminated water generated from interior cleaning operations (of both piping and tank) shall not exceed the following quantities for each UST cleaned:

| UST VOLUME (GALLONS) | PERCENT OF UST VOLUME |
|----------------------|----------------------------------|
| 1,000 or less | 5 |
| 10,000 or less | 5 or 100 gal., whichever is less |
| 20,000 or less | 1 or 150 gal., whichever is less |
| greater than 20,000 | 1 or 250 gal., whichever is less |

All contaminated water resulting from cleaning operations shall be discharged to the installation sanitary sewer after passing through an oil water separator. Cleaning shall be accomplished eliminating, to the greatest extent possible, the need for personnel to enter the tank. Cleaning shall be done using specially designed tank cleaning equipment which allows the tank to be cleaned prior to cutting into sections without requiring personnel to enter the tank or, if less specialized equipment is used, the tank shall be partially dissected to overcome confined space entry hazards.

3.10 SOIL EXAMINATION, TESTING, AND ANALYSIS

3.10.1 Tank Excavation and Stockpile Sampling Procedures

Sampling shall be conducted in accordance with the Work Plan.

3.10.2 Analysis

Soil samples from the excavation and stockpiled material shall be tested in accordance with Section 02223 SAMPLING AND TESTING. Copies of all test results shall be provided to the Contracting Officer.

3.11 BACKFILLING

The tank area and any other excavations shall be backfilled as soon as possible only after the soil test results have been approved. Contaminated soil removal shall be complete after the bottom of the tank excavation is determined to have soil contamination levels below the state standards of 100 ppm TPH. The excavation shall be dewatered if necessary. Stockpiled material subjected to chemical confirmation testing shall be used as backfill if it is found to contain less than 200 ppm of total petroleum hydrocarbons (TPH). Backfill consisting of clean fill shall be placed in layers with a maximum loose thickness of 8 inches, and compacted to 90 percent maximum density for cohesive soils and 95 percent maximum density for cohesionless soils. Density tests shall be performed by an approved commercial testing laboratory or by facilities furnished by the Contractor. Test results shall be attached to contractor's Quality Control Report. A minimum of 1 density test shall be performed on each lift. Laboratory tests for moisture density relations shall be determined in accordance with ASTM D 1557, Method B, C, or D, or ASTM D 3017. A mechanical tamper may be used provided that the results are correlated with those obtained by the hand tamper. Field inplace density shall be determined in accordance with ASTM D 1556, ASTM D 2922, or ASTM D 2167.

3.12 DISPOSAL REQUIREMENTS

3.12.1 Treatment, Disposal, and Recycling

Disposal of special wastes shall be in accordance with all local, State, and Federal solid waste laws and regulations and conditions specified herein. This work shall include all necessary personnel, labor, transportation, packaging, detailed analyses (if required for disposal, manifesting or completing waste profile sheets), equipment, and reports. Product and pumpable liquids removed from the tank shall be recycled to the greatest extent practicable. Each tank disposed of in this manner shall be manifested as required by the State of Washington to document delivery and acceptance at the disposal facility.

3.12.1 Tank and Ancillary Equipment Disposal

After the tank, piping, and ancillary equipment have been removed from the excavation and the tank cleaned, the tank shall be cut into sections. Tank and piping sections shall be recycled or disposed of in a State approved off-site disposal facility. The tank shall be cut into sections prior to being taken from the tank removal site. The Contractor shall not sell the tank intact. Ancillary equipment shall be recycled or disposed of at an approved off-site disposal facility. Piping shall be disconnected from the tank and removed or grouted full of a portland cement and water slurry consisting of 6 gallons of clean water per 94 pound sack of portland cement, thoroughly mixed and free of lumps unless otherwise indicated.

3.12.2 Transportation of Wastes

Transportation shall be provided in accordance with Department of Transportation (DOT) Hazardous Material Regulations and State and local requirements, including obtaining all necessary permits, licenses, and approvals. Evidence that a State licensed waste transporter is being used shall be included in the SUBMITTALS.

3.12.3 Salvage Rights

The Contractor shall retain the rights to salvage value of recycled or reclaimed product and metal not turned in to the DRMO or otherwise identified, so long as the requirements of 40 CFR 266 and 40 CFR 279, or the applicable State requirements are met. At the end of the contract, the Contractor shall provide documentation on the disposition of salvaged materials.

3.12.4 Records

Records shall be maintained of all waste determinations, including appropriate results of analyses performed, substances and sample location, the time of collection, and other pertinent data as required by 40 CFR 280, Section 74 and 40 CFR 262 Subpart D, and Section 02223, SAMPLING AND TESTING. Transportation, treatment, disposal methods and dates, the quantities of waste, the names and addresses of each transporter and the disposal or reclamation facility, shall also be recorded and available for inspection, as well as copies of the following documents:

- a. Manifests.
- b. Waste analyses or waste profile sheets.
- c. Certifications of final treatment/disposal signed by the responsible disposal facility official.
- d. Land disposal notification records required under 40 CFR 268for hazardous wastes.

Records shall be provided in accordance with Federal regulations.

3.12.5 Documentation of Treatment or Disposal

The wastes, other than recyclable or reclaimable product or metal, shall be taken to a treatment, storage, or disposal facility which has EPA or appropriate state permits and or special waste identification numbers and complies with the provisions of the disposal regulations. Documentation of acceptance of special waste by a facility legally permitted to treat or dispose of those materials shall be furnished to the Contracting Officer not later than 5 working days following the delivery of those materials to the facility; and a copy shall be included in the Tank Closure Report. A statement of agreement from the proposed treatment, storage or disposal facility and certified transporters to accept special wastes shall be furnished in the Work Plan. If the Contractor selects a different facility than is identified in the Work Plan, documentation shall be provided for approval to certify that the facility is authorized and meets the standards specified in 40 CFR 264.

3.13 SPILLS

Immediate containment actions shall be taken as necessary to minimize effect of any spill or leak. Cleanup shall be in accordance with applicable Federal, State, local laws and regulations, and district policy at no additional cost to the Government.

3.14 TANK CLOSURE REPORT

The Contractor shall provide a draft and final version of the Tank Closure report. The final version shall incorporate Government comments. Tank Closure Reports shall include the following information as a minimum:

- a. A cover letter signed by a responsible company official certifying that all services involved have been performed in accordance with the terms and conditions of this specification.
- b. A narrative report describing what was encountered at each site, including:
 - (1) condition of the UST.
 - (2) any visible evidence of leaks or stained soils.
 - (3) results of vapor monitoring readings.
 - (4) actions taken including quantities of materials treated or removed.
 - (5) reasons for selecting sample locations.
 - (6) sample locations.
 - (7) collection data such as time of collection and method of preservation.
 - (8) reasons for backfilling site.
 - (9) whether or not groundwater was encountered.
 - (10) a table comparing Washington State MTCA Method A levels to confirmation sample analytical results.
- c. Copies of all analyses performed for disposal.
- d. Copies of all waste analyses or waste profile sheets.
- e. Copies of all certifications of final disposal signed by the responsible disposal installation official.
- f. Information on who sampled, analyzed, transported, and accepted all wastes encountered, including copies of manifests, waste profile sheets, land disposal restriction, notification and certification forms, certificates of disposal, and other pertinent documentation.

- g. Copies of all analyses performed for confirmation that underlying soil is not contaminated, with copies of chain-of-custody for each sample. Analyses shall give the identification number of the sample used. Sample identification numbers shall correspond to those provided on the one-line drawings.
- h. Scaled one-line drawings showing tank locations, limits of excavation, limits of contamination, underground utilities within 50 feet, sample locations, and sample identification numbers.
- i. Progress Photographs. The Contractor shall take a minimum of 4 views of the site showing such things as the location of each tank, entrance/exit road, and any other notable site condition before work begins. After work has been started at the site, the Contractor shall photographically record activities at each work location daily. Photographs shall be 3 x 5 inches and shall include:
 - (1) Soil removal, handling, and sampling.
 - (2) Unanticipated events such as discovery of additional contaminated areas.
 - (3) Soil stockpile area.
 - (4) Tank.
 - (5) Site or task-specific employee respiratory and personal protection.
 - (6) Fill placement and grading.
 - (7) Post-construction photographs. After completion of work at each site, the Contractor shall take a minimum of four (4) views of the site. Prints shall illustrate the condition and location of work and the state of progress. The photographs shall be mounted and enclosed back-to-back in a double face plastic sleeve punched to fit standard three ring binders. Each color print shall show an information box, 1-1/2 x 3-1/2 inches. The information box for the 3 x 5 inch photographs shall be scaled down accordingly, or taped to the bottom of the photo. The box shall be typewritten and arranged as follows:

| Project No. | Contract No. |
|-------------------------------------|---------------|
| Location Contractor/Photographer | |
| Photograph No. | Date/Time: |
| Description | |
| Direction of View | |
| | END 05 050TIO |

END OF SECTION

SECTION 02220

DEMOLITION

1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

ENGINEERING MANUALS (EM)

EM 385-1-1

(1996) U.S. Army Corps of Engineers Safety and Health Requirements Manual

1.2 GENERAL REQUIREMENTS

The work includes demolition, salvage of identified items and materials, and removal of resulting rubbish and debris. Rubbish and debris shall be removed from Government property daily, unless otherwise directed, to avoid accumulation at the demolition site. Materials that cannot be removed daily shall be stored in areas specified by the Contracting Officer. In the interest of occupational safety and health, the work shall be performed in accordance with EM 385-1-1, Section 23, Demolition, and other applicable Sections. In the interest of conservation, salvage shall be pursued to the maximum extent possible; salvaged items and materials shall be disposed of as specified.

1.3 SUBMITTALS

Government approval is required for submittals. The following shall be submitted in accordance with Section 01000 SPECIAL CONDITIONS:

1.3.1 Statements

a. Work Plan.

The procedures proposed for the accomplishment of the work. The procedures shall provide for safe conduct of the work, including procedures and methods to provide necessary supports, lateral bracing and shoring when required, careful removal and disposition of materials specified to be salvaged, protection of property which is to remain undisturbed, coordination with other work in progress, and timely disconnection of utility services. The procedures shall include a detailed description of the methods and equipment to be used for each operation, and the sequence of operations in accordance with EM 385-1-1.

1.4 DUST CONTROL

The amount of dust resulting from demolition shall be controlled to prevent the spread of dust to occupied portions of the construction site and to avoid creation of a nuisance in the surrounding area. Use of water will not be permitted when it will result in, or create, hazardous or objectionable conditions such as ice, flooding and pollution.

1.5 PROTECTION

1.5.1 Protection of Personnel

During the demolition work the Contractor shall continuously evaluate the condition of the structure being demolished and take immediate action to protect all personnel working in and around the demolition site. No area, section, or component of floors, roofs, walls, columns, pilasters, or other structural element will be allowed to be left standing without sufficient bracing, shoring, or lateral support to prevent collapse or failure while workmen remove debris or perform other work in the immediate area.

1.5.2 Protection of Structures

Floors, roofs, walls, columns, pilasters, and other structural components that are designed and constructed to stand without lateral support or shoring, and are determined to be in stable condition, shall remain standing without additional bracing, shoring, of lateral support until demolished, unless directed otherwise by the Contracting Officer. The Contractor shall ensure that no elements determined to be unstable are left unsupported and shall be responsible for placing and securing bracing, shoring, or lateral supports as may be required as a result of any cutting, removal, or demolition work performed under this contract.

1.5.3 Protection of Existing Property

Before beginning any demolition work, the Contractor shall survey the site and examine the drawings and specifications to determine the extent of the work. The Contractor shall take necessary precautions to avoid damage to existing items to remain in place, to be reused, or to remain the property of the Government; any damaged items shall be repaired or replaced as approved by the Contracting Officer. The Contractor shall coordinate the work of this section with all other work and shall construct and maintain shoring, bracing, and supports as required. The Contractor shall ensure that structural elements are not overloaded and shall be responsible for increasing structural supports or adding new supports as may be required as a result of any cutting, removal, or demolition work performed under this contract.

1.5.4 Protection From the Weather

Salvaged materials and equipment shall be protected from the weather at all times.

1.5.5 Protection of Trees

Trees within the project site which might be damaged during demolition, and which are indicated to be left in place, shall be protected by a 6-foot high fence. The fence shall be securely erected OUTSIDE DRIPLINE of individual trees or follow the outer perimeter of the branches of tree clumps or groves. Any tree designated to remain that is damaged during the work under this contract shall be replaced in kind or as approved by the Contracting Officer.

1.6 BURNING

The use of burning at the project site for the disposal of refuse and debris will not be permitted.

1.7 USE OF EXPLOSIVES

Use of explosives will not be permitted.

1.8 AVAILABILITY OF WORK AREAS

Areas in which the work is to be accomplished will be available in accordance with the following schedule: The existing Golf Clubhouse and Cart Storage Facilities will be vacated and ready for demolition work, including hazardous material abatement, to proceed on October 1, 1999. Work shall be completed, including final inspection and acceptance of the site, no later than November 15, 1999.

2 PRODUCTS (NOT APPLICABLE)

3 EXECUTION

3.1 EXISTING STRUCTURES

Existing structures indicated shall be removed to include foundations below grade. Interior sidewalks, planter walls and service yard screen walls around the Golf Clubhouse building, shall be removed. Pavements exterior to the buildings shall remain.

3.2 UTILITIES

Existing utilities shall be removed as indicated. When utility lines are encountered that are not indicated on the drawings, the Contracting Officer shall be notified prior to further work in that area.

3.3 FILLING

Holes and other hazardous openings shall be filled loosely with available material from excavations.

3.4 DISPOSITION OF MATERIAL

Title to material and equipment to be demolished, except Government salvage and historical items, is vested in the Contractor upon receipt of notice to proceed. The Government will not be responsible for the condition, loss or damage to such property after notice to proceed.

3.4.1 Salvageable Items and Material

Contractor shall salvage items and material to the maximum extent possible.

3.4.1.1 Material Salvaged for the Contractor

Material salvaged for the Contractor shall be stored as approved by the Contracting Officer and shall be removed from Government property before completion of the contract. Material salvaged for the Contractor shall not be sold on the site.

02220-3

Demolition

3.4.1.2 Items Salvaged for the Government

Salvaged items to remain the property of the Government shall be removed in a manner to prevent damage, and packed or crated to protect the items from damage while in storage or during shipment. Items damaged during removal or storage shall be repaired or replaced to match existing items. Containers shall be properly identified as to contents. The following items reserved as property of the Government shall be delivered to the areas designated: Pro Shop hat and shoe display casework; Kitchen equipment to include ice machine, double glass door refrigerator, refrigerator-freezer, and sandwich preparation station; washer-dryer; exterior walk-in refrigerator.

3.4.1.3 Items Salvaged for the Using Service

The following items reserved as property of the using service shall be removed prior to commencement of work under this contract: Dining area furnishings, Pro Shop display counters and casework; Office furniture and computer equipment; metal storage shelving; Locker room furnishings; bulletin boards.

3.4.2 Unsalvaged Material

Unsalvaged material shall be disposed of off the site.

3.4.2.1 Hazardous Fluorescent Light Ballasts:

Polychlorinated biphenyl (PCB) contaminated ballasts (non-leaking) are to be disposed of by removal from each light fixture and placed directly into a double thickness plastic bag. Leaking ballasts shall be wrapped in newspaper or other absorbent material before placing into the plastic bag. For transporting, the bag shall be placed in a drum that is approved by the Department of Transportation (DOT) drum type 17H for PCB's. All spills and contaminated materials used for clean-up shall be disposed of according to the Environmental Protection Agency (EPA) requirements (Toxic Substance Control Act, 40 CFR, Part 761). Drums shall be sealed and marked with an approved EPA label and disposed off base in an approved depository. Complete paperwork shall be maintained by the Contractor to verify proper disposal.

3.5 CLEAN UP

Debris and rubbish shall be removed from excavations. Debris shall be removed and transported in a manner that prevents spillage on streets or adjacent areas. Local regulations regarding hauling and disposal shall apply.

END OF SECTION

SECTION 02223

SAMPLING AND TESTING

Part 1 - GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

ENVIRONMENTAL PROTECTION AGENCY (EPA)

EPA SW 846 (Rev. 0) Test Methods for Evaluating Solid Wastes, (Vol.

IA, IB, IC and 11)

EPA 600/4-79-020 (1983) Methods for Chemical Analysis of Water and

Wastes

WASHINGTON STATE DEPARTMENT OF ECOLOGY TOXICS CLEANUP PROGRAM

Guidance on Sampling and Data Analysis Methods, January 1995, and Guidance for Site Checks and Site Assessments for Underground Storage Tanks (Publ. No. 90-52).

Chapter 173-340 Model Toxics Control Act Cleanup

1.2 GENERAL

The work covered in this section shall consist of sampling and testing of soil, sludge and rinsate, concrete, and groundwater, if present. The sampling and testing shall determine the type, nature and characteristics of the sampled materials and the presence of hydrocarbons and other chemicals in the various materials. Testing and sampling shall be accomplished by means of grab samples from the locations indicated or specified herein. Grab samples shall be taken for underground tank contents. The Contractor shall submit copies of all testing results to the Contracting Officer within 24 hours after completion of testing. The Contractor shall pay the cost of and be responsible for all sampling and testing.

1.3 SAMPLING PLAN

The sampling plan shall be prepared as a part of tank closure procedures specified in Section 02115, UNDERGROUND STORAGE TANK REMOVAL.

The Contractor shall submit a sampling plan to the Washington State Department of Ecology for review and approval before conducting any sampling activities. The sampling plan shall be prepared in accordance with federal, state and local regulations and shall include, but shall not be limited to: description of appropriate personnel; field methodology; number of samples, location, handling and storage; and laboratory protocol for all tests to be performed. The sampling plan shall include sampling and analysis plans for confirmation sampling of the excavation, stockpiles, and any groundwater encountered. If the sampling plan is deficient, the Contractor shall make the required corrections and resubmit the sampling plan to the Washington State Department of Ecology for approval. Upon approval of the sampling plan, the Contractor shall submit the plan to the Contracting Officer for the final approval.

1.4 SUBMITTALS

Submit the following in accordance with Sections 01000 "Special Conditions" and 01300, "Submittals".

- A. Testing Laboratory Credentials.
- B. Sampling Plan pre-approved by DOE.
- C. Sampling Logs.

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION

3.1 SAMPLING

All samples shall be obtained in a manner that precludes exposure of the sample to external contamination or that allows a loss of volatile organic chemical compounds in accordance with methods equivalent to those described in EPA SW-846. The number of samples specified in paragraph 3.2.5 may be subject to change based on field conditions and to the discretion of the Washington State Department of Ecology. The transportation of samples shall be done in a manner to avoid spilling or wastage of any material. The Contractor shall make every effort to collect only the amount required for analysis so that excess material disposal is not necessary. The Contractor will notify the Contracting Officer in writing about sampling and testing at each site. Details about sampling and testing will be approved by the Contracting Officer before any site work.

3.1.1 SOIL SAMPLES

Sampling equipment contacting the soil shall be either brass or stainless steel. Samples to be analyzed for volatiles shall be drive-type samplers, which are sealed on both ends immediately after sample collection with teflon sheets and capped with plastic end caps, put in small sealed bags and placed on ice. Samples for other analyses shall be grab-type samples collected with stainless steel tools, placed in brass or stainless steel sample sleeves covered with teflon tape and capped with plastic end caps, and placed on ice in containers of appropriate volume and type. The Contractor shall collect soil samples as

soon as possible after removal of the tank. All preparations for soil sampling shall be made before tank removal. The Contractor shall collect soil samples from a backhoe bucket or from the ground in a decontaminated, 2-inch diameter, thin-walled brass or stainless steel cylinder which fits inside a standard 2-inch diameter drive-type sampler. About six inches of soil should be removed from the immediate surface area where the sample is to be taken and the cylinder then pounded into the soil with a hand operated slide hammer driver, or other decontaminated pounding device. No headspace should be present in the cylinder once the sample is collected. A sand catcher shall be used to retain the sample inside the sampler during retrieval. Once the sample is collected, each end of the cylinder should be covered with teflon and then capped with a polyethylene lid, and labeled. Duplicate samples for Quality Assurance/Quality Control shall be collected at a minimum of 10 percent of the collected samples quantity. The end caps shall not be taped since the tape adhesive frequently contains toluene. Soil samples shall be placed in sealed plastic bags before being placed in an ice chest. The sample should then be immediately placed in an ice chest cooled to 4°C. Care should be taken to avoid contamination of both the inside and outside of the cylinder and its contents.

The exact location of soil samples to be obtained from tank and pipe to be removed shall be determined by the Contracting Officer or his designated representative. The minimum number of samples to be taken are outlined in paragraph 3.2.5 and shall be submitted for laboratory analysis according to paragraph 3.2, Testing.

3.1.2 SAMPLING OF TANK CONTENTS

Sampling of tank contents shall be limited to the sampling of the sludge and rinsate. A representative sample shall be taken and submitted for laboratory analysis in accordance with paragraph 3.2, Testing. Thickness of layers of the various phases present should be recorded in the field records. Additional quality control and quality assurance samples will be collected at each site at a rate of 10 percent or one sample, whichever is greater.

3.1.3 SAMPLING OF GROUNDWATER

If groundwater is present in the excavation, the Contractor shall visually identify and record evidence of floating product. The Tacoma-Pierce County representative shall direct the number and location of water samples to be collected by the Contractor. The Contractor shall be prepared to collect at least one water sample per tank location. In addition, one quality assurance and one quality control sample will be collected at a minimum. Appropriate containers used should be supplied by the laboratory performing the analyses, and consist of Volatile Organic Compound (VOC) analysis vials or other containers specifically designed for the analyses. Samples should be collected in such a manner that air bubbles are not entrapped. Containers should be filled above the top to form a positive meniscus. No headspace should be present once the container has been capped. Check containers for bubbles by turning upside down and tapping the side to dislodge bubbles. Hydrochloric acid preservative shall be used for VOC samples.

3.1.4 SAMPLE LABELS

Each soil sample shall be placed in a properly decontaminated sample container. Sample caps shall have teflon liners. Each container shall be labeled with the following information:

EPA test method number of the requested analysis, project name, location, sample identification number, date and time sample was taken and the name of person collecting the sample and other requirements of the Washington State Department of Ecology.

3.1.5 SHIPPING CONTAINERS

Samples shall be placed in ice chests containing ice. The ice shall be properly packaged to prevent leakage of water into the sampling containers. All ice chests shall be decontaminated in accordance with paragraph 3.2.6, Decontamination. The ice chests shall have a capacity and strength suitable for holding the required number of samples and ice. Each ice chest shall be clearly identified with weatherproof and wear proof labels. The sample containers shall be sealed in water-tight plastic bags before placement into the ice chest. Samples shall be placed in ice as soon as possible after they are taken, in order that the natural content of the material may be retained to the fullest extent. In general, no specimen acquired for testing shall remain on the site for more than 1 day after samples are collected.

3.1.6 QUALITY CONTROL SAMPLES

Ten percent of the samples shall be sent to a State certified laboratory selected by the Contractor. The choice for the quality control laboratory will be validated by the Washington State Department of Ecology.

3.2 TESTING

The Contractor shall perform all the following analyses for samples according to the type of material that is found in the underground tank, pipe and groundwater:

| Substance | Analysis | Soil/Sludge Analysis Method | Liquid/Water Analysis Method |
|-----------------|----------|-----------------------------|-------------------------------|
| Diesel/Fuel Oil | TPH | NWTPH-Dx | NWTPH-Dx |
| Groundwater | VOCs | | 8260 |

3.2.1 CONTENTS OF THE TANKS

The Contractor shall perform the following analyses for each sample of the sludge and rinsate from tank contents: WTPH-Dx

3.2.2 LABORATORY VALIDATION

The Contractor shall use an U.S. Air Force approved laboratory for testing of soil and underground tank contents. The laboratory also shall be certified by the State of Washington. The Contractor shall provide a list of successful analysis of performance audit

samples, normal samples and quality assurance and quality control samples indicated in the Quality Control Plan. The name and location of the Contractor's proposed laboratory shall be submitted to the Contracting Officer within 15 days after the contract is awarded.

3.2.3 CARE AND DELIVERY OF SAMPLES

The Contractor shall be responsible for preserving all samples in good condition. Samples shall be protected from exposure to the weather, and all descriptive labels and designations on sample containers shall be kept clean and legible until final delivery. Samples shall be delivered to the lab and tested within the required holding time for each analyte.

3.2.4 RECORDS

The Contractor shall maintain adequate inspection records and make them available to the Contracting Officer. In addition to the records of inspection, the Contractor shall prepare logs of samples of soil, groundwater, and contents of tanks and pipes. The logs shall be complete and legible and submitted to the Contracting Officer upon completion of the work or at such other times as directed. All such records shall be preserved in good condition and order by the Contractor until they are delivered and accepted, and the Contracting Officer shall have the right to examine such records at any time prior to their delivery.

3.2.5 NUMBER OF SAMPLES

The Contractor shall collect three (3) soil samples from the excavation pit of each removed tank that has a capacity 20,000 gallons or less. One of the samples shall be collected from beneath the tank; the remaining two samples shall be taken from the sidewalls of the excavation, below the previous invert elevation of the tank. When multiple tanks are being removed from a single excavation pit, one additional sample shall be collected from beneath each additional tank being removed.

In addition, a minimum number of discrete samples shall be collected from stockpiled excavated soil as shown below.

| Cubic Yards of Soil | Minimum Numbers of Samples |
|---------------------|------------------------------------|
| 0-100 | 3 |
| 101-500 | 5 |
| 501-1000 | 7 |
| 1001-2000 | 10 |
| >2000 | 10+1 for each |
| | additional 500 cubic yards of soil |

Collect one soil sample from around the piping system for every fifty (50) feet of piping (i.e., one sample if less than 50 feet of piping exists, etc.).

3.2.6 DECONTAMINATION

All sampling equipment shall be decontaminated before, between sampling collection and after sampling. The decontamination procedure shall consist of washing the equipment in potable water with a non-phosphoric detergent added, one rinse in potable water and a second rinse in distilled water.

END OF SECTION

SECTION 13280

ASBESTOS ABATEMENT

1 GENERAL

1.1 DESCRIPTION OF WORK

This section deals with the removal of asbestos-containing materials prior to the demolition of the McChord Air Force Base Golf Course Clubhouse and Cart Storage buildings.

The contractor shall furnish all labor, materials, services, training, insurance, and equipment as needed to perform removal of asbestos-containing materials for the demolition of the Clubhouse and Cart Storage buildings as described herein and shown on the survey drawings. The contractor shall follow all federal, state, and local ordinances, regulations, and rules pertaining to asbestos, including storage, transportation, and disposal.

Supplemental report; Asbestos, Lead, and PCB Light Ballast Survey dated January 14, 1999 and prepared by Med-Tox Northwest, is available for review and is included herein. This document identifies the asbestos-containing materials in the buildings that require removal prior to demolition.

1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

| ANSI Z9.2 | (1979; R 1991) Fundamentals Governing the Design and Operation of Local Exhaust Systems |
|------------|---|
| ANSI Z87.1 | (1989; Errata; Z87.1a) Occupational and Educational Eye and Face Protection |
| ANSI Z88.2 | (1992) Respiratory Protection |

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

| ASTM C 732 | (1995) Aging Effects of Artificial Weathering on Latex Sealants |
|-------------|--|
| ASTM D 522 | (1993a) Mandrel Bend Test of Attached Organic Coatings |
| ASTM D 1331 | (1989; R 1995) Surface and Interfacial Tension of Solutions of Surface-Active Agents |

| ASTM D 2794 | (1993) Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact) |
|-------------|---|
| ASTM D 4397 | (1996) Polyethylene Sheeting for Construction, Industrial, and Agricultural Applications |
| ASTM E 84 | (1996a) Surface Burning Characteristics of Building Materials |
| ASTM E 96 | (1995) Water Vapor Transmission of Materials |
| ASTM E 119 | (1995a) Fire Tests of Building Construction and Materials |
| ASTM E 736 | (1992) Cohesion/Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members |
| ASTM E 1368 | (1997) Visual Inspection of Asbestos Abatement Projects |
| | |

CODE OF FEDERAL REGULATIONS (CFR)

| Occupational Safety and Health Standards |
|--|
| Safety and Health Regulations for Construction |
| National Emissions Standards for Hazardous Air Pollutants |
| Asbestos |
| Approval of Respiratory Protective Devices |
| Hazardous Materials Program Procedures |
| General Information, Regulations and Definitions |
| Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, and Training Requirements |
| Shippers - General Requirements for Shipments and Packagings |
| |

COMPRESSED GAS ASSOCIATION (CGA)

| CGA G-7 | (1990) Compressed Air for Human Respiration |
|-----------|---|
| CGA G-7.1 | (1989) Commodity Specification for Air |

ENGINEERING MANUALS (EM)

EM 385-1-1 (1996) Safety and Health Requirements Manual

ENVIRONMENTAL PROTECTION AGENCY (EPA)

EPA 340/1-90-018 (1990) Asbestos/NESHAP Regulated Asbestos

Containing Materials Guidance

EPA 340/1-90-019 (1990) Asbestos/NESHAP Adequately Wet Guidance

EPA 560/5-85-024 (1985) Guidance for Controlling Asbestos-Containing

Materials in Buildings

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 701 (1996) Methods of Fire Test for Flame-Resistant

Textiles and Films

NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH)

NIOSH Pub No. 84-100 (1984; Supple 1985, 1987, 1988 & 1990) NIOSH

Manual of Analytical Methods

UNDERWRITERS LABORATORIES (UL)

UL 586 (1996) High-Efficiency, Particulate, Air Filter Units

STATE OF WASHINGTON REGULATIONS

WAC 296-24 General Safety and Health Standards

WAC 296-62 General Occupational Health Standards

WAC 296-65 Asbestos Removal and Encapsulation

WAC 296-155 Safety Standards for Construction Work

Regulation III, Article 4 Puget Sound Air Pollution Control Agency

1.3 DEFINITIONS

a. Adequately Wet: A term defined in 40 CFR 61, Subpart M, and EPA 340/1-90-019 meaning to sufficiently mix or penetrate with liquid to prevent the release of particulate. If visible emissions are observed coming from asbestos-containing material (ACM), then that material has not been adequately wetted. However, the absence of visible emissions is not sufficient evidence of being adequately wetted.

- b. Aggressive Method: Removal or disturbance of building material by sanding, abrading, grinding, or other method that breaks, crumbles, or disintegrates intact asbestos-containing material (ACM).
- c. Amended Water: Water containing a wetting agent or surfactant with a surface tension of at least 29 dynes per square centimeter when tested in accordance with ASTM D 1331.
- d. Asbestos: Asbestos includes chrysotile, amosite, crocidolite, tremolite asbestos, anthophylite asbestos, actinolite asbestos, and any of these minerals that have been chemically treated and/or altered.
- e. Asbestos-Containing Material (ACM): Any materials containing more than one percent asbestos.
- f. Asbestos Fiber: A particulate form of asbestos, 5 micrometers or longer, with a length-to-width ratio of at least 3 to 1.
- g. Authorized Person: Any person authorized by the Contractor and required by work duties to be present in the regulated areas.
- h. Building Inspector: Individual who inspects buildings for asbestos and has EPA Model Accreditation Plan (MAP) "Building Inspector" training; accreditation required by 40 CFR 763, Subpart E, Appendix C.
- Certified Industrial Hygienist (CIH): An Industrial Hygienist certified in the practice of industrial hygiene by the American Board of Industrial Hygiene.
- j. Class I Asbestos Work: Activities defined by OSHA involving the removal of thermal system insulation (TSI) and surfacing ACM.
- k. Class II Asbestos Work: Activities defined by OSHA involving the removal of ACM which is not thermal system insulation or surfacing material. This includes, but is not limited to, the removal of asbestos- containing wallboard, floor tile and sheeting, roofing and siding shingles, and construction mastic. Certain "incidental" roofing materials such as mastic, flashing and cements when they are still intact are excluded from Class II asbestos work. Removal of small amounts of these materials which would fit into a glovebag may be classified as a Class III job.
- I. Class III Asbestos Work: Activities defined by OSHA that involve repair and maintenance operations, where ACM, including TSI and surfacing ACM, is likely to be disturbed. Operations may include drilling, abrading, cutting a hole, cable pulling, crawling through tunnels or attics and spaces above the ceiling, where asbestos is actively disturbed or asbestos-containing debris is actively disturbed.
- m. Class IV Asbestos Work: Maintenance and custodial construction activities during which employees contact but do not disturb ACM and activities to clean-up dust, waste and debris resulting from Class I, II, and III activities. This may include dusting surfaces where ACM waste and debris and accompanying dust exists and cleaning up loose ACM debris from TSI or surfacing ACM following construction.

- n. Clean room: An uncontaminated room having facilities for the storage of employees' street clothing and uncontaminated materials and equipment.
- o. Competent Person: In addition to the definition in 29 CFR 1926, Section .32(f), a person who is capable of identifying existing asbestos hazards as defined in 29 CFR 1926, Section .1101, selecting the appropriate control strategy, has the authority to take prompt corrective measures to eliminate them and has EPA Model Accreditation Plan (MAP) "Contractor/Supervisor" training; accreditation required by 40 CFR 763, Subpart E, Appendix C.
- p. Contractor/Supervisor: Individual who supervises asbestos abatement work and has EPA Model Accreditation Plan "Contractor/Supervisor" training; accreditation required by 40 CFR 763, Subpart E, Appendix C.
- q. Critical Barrier: One or more layers of plastic sealed over all openings into a regulated area or any other similarly placed physical barrier sufficient to prevent airborne asbestos in a regulated area from migrating to an adjacent area.
- r. Decontamination Area: An enclosed area adjacent and connected to the regulated area and consisting of an equipment room, shower area, and clean room, which is used for the decontamination of workers, materials, and equipment that are contaminated with asbestos.
- s. Demolition: The wrecking or taking out of any load-supporting structural member and any related razing, removing, or stripping of asbestos products.
- t. Disposal Bag: A 6 mil thick, leak-tight plastic bag, pre-labeled in accordance with 29 CFR 1926, Section .1101, used for transporting asbestos waste from containment to disposal site.
- u. Disturbance: Activities that disrupt the matrix of ACM, crumble or pulverize ACM, or generate visible debris from ACM. Disturbance includes cutting away small amounts of ACM, no greater than the amount which can be contained in 1 standard sized glovebag or waste bag, not larger than 60 inches in length and width in order to access a building component.
- v. Equipment Room or Area: An area adjacent to the regulated area used for the decontamination of employees and their equipment.
- w. Employee Exposure: That exposure to airborne asbestos that would occur if the employee were not using respiratory protective equipment.
- x. Fiber: A fibrous particulate, 5 micrometers or longer, with a length to width ratio of at least 3 to 1.
- y. Friable ACM: A term defined in 40 CFR 61, Subpart M and EPA 340/1-90-018 meaning any material which contains more than 1 percent asbestos, as determined using the method specified in 40 CFR 763, Subpart E, Appendix A, Section 1, Polarized Light Microscopy (PLM), that when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. If the asbestos content is less than 10

- percent, as determined by a method other than point counting by PLM, the asbestos content is verified by point counting using PLM.
- z. Glovebag: Not more than a 60 by 60 inch impervious plastic bag-like enclosure affixed around an asbestos-containing material, with glove-like appendages through which material and tools may be handled.
- aa. High-Efficiency Particulate Air (HEPA) Filter: A filter capable of trapping and retaining at least 99.97 percent of all mono-dispersed particles of 0.3 micrometers in diameter.
- bb. Homogeneous Area: An area of surfacing material or thermal system insulation that is uniform in color and texture.
- cc. Industrial Hygienist: A professional qualified by education, training, and experience to anticipate, recognize, evaluate, and develop controls for occupational health hazards.
- dd. Intact: ACM which has not crumbled, been pulverized, or otherwise deteriorated so that the asbestos is no longer likely to be bound with its matrix. Removal of "intact" asphaltic, resinous, cementitious products does not render the ACM non-intact simply by being separated into smaller pieces.
- ee. Model Accreditation Plan (MAP): USEPA training accreditation requirements for persons who work with asbestos as specified in 40 CFR 763, Subpart E, Appendix C.
- ff. Modification: A changed or altered procedure, material or component of a control system, which replaces a procedure, material or component of a required system.
- gg. Negative Exposure Assessment: A demonstration by the Contractor to show that employee exposure during an operation is expected to be consistently below the OSHA Permissible Exposure Limits (PELs).
- hh. NESHAP: National Emission Standards for Hazardous Air Pollutants. The USEPA NESHAP regulation for asbestos is at 40 CFR 61, Subpart M.
- ii. Nonfriable ACM: A NESHAP term defined in 40 CFR 61, Subpart M and EPA 340/1-90-018 meaning any material containing more than 1 percent asbestos, as determined using the method specified in 40 CFR 763, Subpart E, Appendix A, Section 1, Polarized Light Microscopy, that, when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure.
- jj. Nonfriable ACM (Category I): A NESHAP term defined in 40 CFR 61, Subpart E and EPA 340/1-90-018 meaning asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1 percent asbestos as determined using the method specified in 40 CFR 763, Subpart F, Appendix A, Section 1, Polarized Light Microscopy.
- kk. Nonfriable ACM (Category II): A NESHAP term defined in 40 CFR 61, Subpart E and EPA 340/1-90-018 meaning any material, excluding Category I nonfriable

ACM, containing more than 1 percent asbestos, as determined using the methods specified in 40 CFR 763, Subpart F, Appendix A, Section 1, Polarized Light Microscopy, that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

II. Permissible Exposure Limits (PELs):

- (1) PEL-Time weighted average(TWA): Concentration of asbestos not in excess of 0.1 fibers per cubic centimeter of air (f/cc) as an 8 hour time weighted average (TWA), as determined by the method prescribed in 29 CFR 1926, Section .1101, Appendix A, or the current version of NIOSH Pub No. 84-100 analytical method 7400.
- (2) PEL-Excursion Limit: An airborne concentration of asbestos not in excess of 1.0 f/cc of air as averaged over a sampling period of 30 minutes as determined by the method prescribed in 29 CFR 1926, Section .1101, Appendix A, or the current version of NIOSH Pub No. 84-100 analytical method 7400.
- mm. Regulated Area: An OSHA term defined in 29 CFR 1926, Section .1101 meaning an area established by the Contractor to demarcate areas where Class I, II, and III asbestos work is conducted; also any adjoining area where debris and waste from such asbestos work accumulate; and an area within which airborne concentrations of asbestos exceed, or there is a reasonable possibility they may exceed, the permissible exposure limit.
- nn. Removal: All operations where ACM is taken out or stripped from structures or substrates, and includes demolition operations.
- oo. Repair: Overhauling, rebuilding, reconstructing, or reconditioning of structures or substrates, including encapsulation or other repair of ACM attached to structures or substrates. If the amount of asbestos so "disturbed" cannot be contained in 1 standard glovebag or waste bag, Class I precautions are required.
- pp. Spills/Emergency Cleanups: Cleanup of sizable amounts of asbestos waste and debris which has occurred, for example, when water damage occurs in a building, and sizable amounts of ACM are dislodged. A Competent Person evaluates the site and ACM to be handled, and based on the type, condition and extent of the dislodged material, classifies the cleanup as Class I, II, or III. Only if the material was intact and the cleanup involves mere contact of ACM, rather than disturbance, could there be a Class IV classification.
- qq. Surfacing ACM: Asbestos-containing material which contains more than 1% asbestos and is sprayed-on, troweled-on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, or other purposes.
- rr. Thermal system insulation (TSI) ACM: ACM which contains more than 1% asbestos and is applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior structural components to prevent heat loss or gain or water condensation.
- ss. Transite: A generic name for asbestos cement wallboard and pipe.

tt. Worker: Individual (not designated as the Competent Person or a supervisor) who performs asbestos work and has completed asbestos worker training required by 29 CFR 1926, Section .1101, to include EPA Model Accreditation Plan (MAP) "Worker" training; accreditation required by 40 CFR 763, Subpart E, Appendix C, if required by the OSHA Class of work to be performed or by the state where the work is to be performed.

1.4 DESCRIPTION OF WORK

The work covered by this section includes the removal of asbestos-containing materials (ACM) which are encountered during abatement or demolition activities associated with this project and describes procedures and equipment required to protect workers and occupants of the regulated area from contact with airborne asbestos fibers and ACM dust and debris. Activities include OSHA Class I and Class II work operations involving ACM. The work also includes containment, storage, transportation and disposal of the generated ACM wastes. More specific operational procedures shall be detailed in the required Accident Prevention Plan and its subcomponents, the Asbestos Hazard Abatement Plan and Activity Hazard Analyses required in paragraph SAFETY AND HEALTH PROGRAM AND PLANS.

1.4.1 Unexpected Discovery of Asbestos

For any previously untested building components suspected to contain asbestos and located in areas impacted by the work, the Contractor shall notify the Contracting Officer (CO) who will have the option of ordering up to 10 bulk samples to be obtained at the Contractor's expense and delivered to a laboratory accredited under the National Institute of Standards and Technology (NIST) "National Voluntary Laboratory Accreditation Program (NVLAP)" and analyzed by PLM at no additional cost to the Government. Any additional components identified as ACM that have been approved by the Contracting Officer for removal shall be removed by the Contractor and will be paid for by an equitable adjustment to the contract price under the CONTRACT CLAUSE titled "changes". Sampling activities undertaken to determine the presence of additional ACM shall be conducted by personnel who have successfully completed the EPA Model Accreditation Plan (MAP) "Building Inspector" training course required by 40 CFR 763, Subpart E, Appendix C.

1.5 SUBMITTALS

Government approval is required for submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with Section 01000 SPECIAL CONDITIONS:

SD-01 Data

Materials and Equipment; FIO.

Manufacturer's catalog data for all materials and equipment to be used in the work, including brand name, model, capacity, performance characteristics and any other pertinent information. Test results and certificates from the manufacturer of encapsulants substantiating compliance with performance requirements of this specification. Material Safety Data Sheets for all chemicals to be used onsite in the same format as implemented in

the Contractor's HAZARD COMMUNICATION PROGRAM. Data shall include, but shall not be limited to, the following items:

- a. High Efficiency Filtered Air (HEPA) local exhaust equipment
- b. Vacuum cleaning equipment
- c. Pressure differential monitor for HEPA local exhaust equipment
- d. Air monitoring equipment
- e. Respirators
- f. Personal protective clothing and equipment
 - (1) Coveralls
 - (2) Underclothing
 - (3) Other work clothing
 - (4) Foot coverings
 - (5) Hard hats
 - (6) Eye protection
 - (7) Other items required and approved by Contractors Designated IH and Competent Person
- g. Glovebag
- h. Duct Tape
- i. Disposal Containers
 - (1) Disposal bags
 - (2) Fiberboard drums
 - (3) Paperboard boxes
- j. Sheet Plastic
 - (1) Polyethylene Sheet General
 - (2) Polyethylene Sheet Flame Resistant
 - (3) Polyethylene Sheet Reinforced
- k. Wetting Agent
 - (1) Amended Water
 - (2) Removal encapsulant
- I. Strippable Coating
- m. Prefabricated Decontamination Unit
- n. Other items

- o. Chemical encapsulant
- p. Chemical encasement materials
- q. Material Safety Data Sheets (for all chemicals proposed)

SD-04 Drawings

Site Layout; GA.

Descriptions, detail project drawings, and site layout to include worksite containment areas, local exhaust ventilation system locations, decontamination and load-out units, other temporary waste storage facility, access tunnels, location of temporary utilities (electrical, water, sewer) and boundaries of each regulated area.

SD-08 Statements

Qualifications; GA.

A written report providing evidence of qualifications for personnel, facilities and equipment assigned to the work.

Training Program; FIO.

A copy of the written project site-specific training material as indicated in 29 CFR 1926, Section .1101 that will be used to train onsite employees. The training document shall be signed by the Contractor's Designated IH and Competent Person.

Medical Requirements; FIO.

Physician's written opinion.

Encapsulants; GA.

Certificates stating that encapsulants meet the applicable specified performance requirements.

SD-09 Reports

Exposure Assessment and Air Monitoring; GA.

Initial exposure assessments, negative exposure assessments, air-monitoring results and documentation.

Local Exhaust Ventilation; FIO.

Pressure differential recordings.

Licenses, Permits and Notifications; GA.

Licenses, permits, and notifications.

SD-13 Certificates

Vacuum, Filtration and Ventilation Equipment; FIO.

Manufacturer's certifications showing compliance with ANSI Z9.2 for:

- a. Vacuums.
- b. Water filtration equipment.
- c. Ventilation equipment.
- d. Other equipment required to contain airborne asbestos fibers.

SD-18 Records

Respiratory Protection Program; GA.

Records of the respirator program.

Cleanup and Disposal; GA.

Waste shipment records. Weigh bills and delivery tickets shall be furnished for information only.

1.6 QUALIFICATIONS

1.6.1 Written Qualifications and Organization Report

The Contractor shall furnish a written qualifications and organization report providing evidence of qualifications of the Contractor, Contractor's Project Supervisor, Designated Competent Person, supervisors and workers; Designated IH (person assigned to project and firm name); independent testing laboratory (including name of firm, principal, and analysts who will perform analyses); all subcontractors to be used including disposal transportation and disposal facility firms, subcontractor supervisors, subcontractor workers; and any others assigned to perform asbestos abatement and support activities. The report shall include an organization chart showing the Contractor's staff organization for this project by name and title, chain of command and reporting relationship with all subcontractors. The report shall be signed by the Contractor, the Contractor's onsite project manager, Designated Competent Person, Designated IH, designated testing laboratory and the principals of all subcontractors to be used. The Contractor shall include the following statement in the report: "By signing this report I certify that the personnel I am responsible for during the course of this project fully understand the contents of 29 CFR 1926, Section .1101, 40 CFR 61, Subpart M, and the federal, state and local requirements specified in paragraph SAFETY AND HEALTH PROGRAM AND PLANS for those asbestos abatement activities that they will be involved in."

1.6.2 Specific Requirements

The Contractor shall designate in writing, personnel meeting the following qualifications:

- a. Designated Competent Person: The name, address, telephone number, and resume of the Contractor's Designated Competent Person shall be provided. Evidence that the full-time Designated Competent Person is qualified in accordance with 29 CFR 1926, Sections .32 and .1101, has EPA Model Accreditation Plan (MAP) "Contractor/Supervisor" training accreditation required by 40 CFR 763, Subpart E, Appendix C, and is experienced in the administration and supervision of asbestos abatement projects, including exposure assessment and monitoring, work practices, abatement methods, protective measures for personnel, setting up and inspecting asbestos abatement work areas, evaluating the integrity of containment barriers, placement and operation of local exhaust systems, ACM generated waste containment and disposal procedures, decontamination units installation and maintenance requirements, site safety and health requirements, notification of other employees onsite, etc. The duties of the Competent Person shall include the following: controlling entry to and exit from the regulated area; supervising any employee exposure monitoring required by 29 CFR 1926, Section .1101; ensuring that all employees working within a regulated area wear the appropriate personal protective equipment (PPE), are trained in the use of appropriate methods of exposure control, and use the hygiene facilities and decontamination procedures specified; and ensuring that engineering controls in use are in proper operating conditions and are functioning properly. The Designated Competent Person shall be responsible for compliance with applicable federal, state and local requirements. the Contractor's Accident Prevention Plan and Asbestos Hazard Abatement Plan. The Designated Competent Person shall provide, and the Contractor shall submit, the "Contractor/Supervisor" course completion certificate and the most recent certificate for required refresher training with the employee "Certificate of Worker Acknowledgment" required by this paragraph. The Contractor shall submit evidence that this person has a minimum of 2 years of on-the-job asbestos abatement experience relevant to OSHA competent person requirements. The Designated Competent Person shall be onsite at all times during the conduct of this project.
- b. Project and Other Supervisors: The Contractor shall provide the name, address, telephone number, and resume of the Project Supervisor and other supervisors who have responsibility to implement the Accident Prevention Plan, including the Asbestos Hazard Abatement Plan and Activity Hazard Analyses, the authority to direct work performed under this contract and verify compliance, and have EPA Model Accreditation Plan (MAP) "Contractor/Supervisor" training accreditation required by 40 CFR 763, Subpart E, Appendix C. The Project Supervisor and other supervisors shall provide, and the Contractor shall submit, the "Contractor/Supervisor" course completion certificate and the most recent certificate for required refresher training with the employee "Certificate of Worker Acknowledgment" required by this paragraph. The Contractor shall submit evidence that the Project Supervisor has a minimum of 2 years of on-the-job asbestos abatement experience relevant to project supervisor responsibilities and the other supervisors have a minimum of 1 year on-the-job asbestos abatement experience commensurate with the responsibilities they will have on this project.
- c. Designated Industrial Hygienist: The Contractor shall provide the name, address, telephone number, resume and other information specified below for the Industrial Hygienist (IH) selected to prepare the Contractor's Asbestos Hazard Abatement Plan, prepare and perform training, direct air monitoring and assist the Contractor's

Competent Person in implementing and ensuring that safety and health requirements are complied with during the performance of all required work. The Designated IH shall be a person who is board certified in the practice of industrial hygiene as determined and documented by the American Board of Industrial Hygiene (ABIH), has EPA Model Accreditation Plan (MAP) "Contractor/Supervisor" training accreditation required by 40 CFR 763, Subpart E, Appendix C, and has a minimum of 2 years of comprehensive experience in planning and overseeing asbestos abatement activities. The Designated IH shall provide, and the Contractor shall submit, the "Contractor/Supervisor" course completion certificate and the most recent certificate for required refresher training with the employee "Certificate of Worker Acknowledgment" required by this paragraph. The Designated IH shall be completely independent from the Contractor according to federal, state, or local regulations; that is, shall not be a Contractor's employee or be an employee or principal of a firm in a business relationship with the Contractor negating such independent status. A copy of the Designated IH's current valid ABIH certification shall be included. The Designated IH shall visit the site at least once per week for the duration of asbestos activities and shall be available for emergencies. In addition, the Designated IH shall prepare, and the Contractor shall submit, the name, address, telephone numbers and resumes of additional IH's and industrial hygiene technicians (IHT) who will be assisting the Designated IH in performing onsite tasks. IHs and IHTs supporting the Designated IH shall have a minimum of 2 years of practical onsite asbestos abatement experience. The formal reporting relationship between the Designated IH and the support IHs and IHTs, the Designated Competent Person, and the Contractor shall be indicated.

- d. Asbestos Abatement Workers: Asbestos abatement workers shall meet the requirements contained in 29 CFR 1926, Section .1101, 40 CFR 61, Subpart M, and other applicable federal, state and local requirements. Worker training documentation shall be provided as required on the "Certificate of Workers Acknowledgment" in this paragraph.
- e. Worker Training and Certification of Worker Acknowledgment: Training documentation will be required for each employee who will perform OSHA Class I and Class II asbestos abatement operations. Such documentation shall be submitted on a Contractor generated form titled "Certificate of Workers Acknowledgment", to be completed for each employee in the same format and containing the same information as the example certificate at the end of this section. Training course completion certificates (initial and most recent update refresher) required by the information checked on the form shall be attached.
- f. Physician: The Contractor shall provide the name, medical qualifications, address, telephone number and resume of the physician who will or has performed the medical examinations and evaluations of the persons who will conduct the asbestos abatement work tasks. The physician shall be currently licensed by the state where the workers will be or have been examined, have expertise in pneumoconiosis and shall be responsible for the determination of medical surveillance protocols and for review of examination/test results performed in compliance with 29 CFR 1926, Section .1101 and paragraph MEDICAL REQUIREMENTS. The physician shall be familiar with the site's hazards and the scope of this project.

- g. First Aid and CPR Trained Persons: The names of at least 2 persons who are currently trained in first aid and CPR by the American Red Cross or other approved agency shall be designated and shall be onsite at all times during site operations. They shall be trained in universal precautions and the use of PPE as described in the Bloodborne Pathogens Standard of 29 CFR 1910, Section .1030 and shall be included in the Contractor's Bloodborne Pathogen Program. These persons may perform other duties but shall be immediately available to render first aid when needed. A copy of each designated person's current valid First Aid and CPR certificate shall be provided.
- h. Independent Testing Laboratory: The Contractor shall provide the name, address and telephone number of the independent testing laboratory selected to perform the sample analyses and report the results. The testing laboratory shall be completely independent from the Contractor as recognized by federal, state or local regulations. Written verification of the following criteria, signed by the testing laboratory principal and the Contractor, shall be submitted:
 - (1) Phase contrast microscopy (PCM): The laboratory is fully equipped and proficient in conducting PCM of airborne samples using the methods specified by 29 CFR 1926, Section .1101, OSHA method ID-160, the most current version of NIOSH Pub No. 84-100 Method 7400, and NIOSH Pub No. 84-100 Method 7402. transmission electron microscopy (TEM); the laboratory is currently judged proficient (classified as acceptable) in counting airborne asbestos samples by PCM by successful participation in each of the last 4 rounds in the American Industrial Hygiene Association (AIHA) Proficiency Analytical Testing (PAT) Program; the names of the selected microscopists who will analyze airborne samples by PCM with verified documentation of their proficiency to conduct PCM analyses by being judged proficient in counting samples as current participating analysts in the AIHA PAT Program, and having successfully completed the Asbestos Sampling and Analysis course (NIOSH 582 or equivalent) with a copy of course completion certificate provided; when the PCM analysis is to be conducted onsite. documentation shall be provided certifying that the onsite analyst meets the same requirements.
 - (2) Polarized light microscopy (PLM): The laboratory is fully equipped and proficient in conducting PLM analyses of suspect ACM bulk samples in accordance with 40 CFR 763, Subpart E, Appendix E; the laboratory is currently accredited by NIST under the NVLAP for bulk asbestos analysis and will use analysts (names shall be provided) with demonstrated proficiency to conduct PLM to include its application to the identification and quantification of asbestos content.
 - (3) Transmission electron microscopy (TEM): The laboratory is [fully equipped and proficient in conducting TEM analysis of airborne samples using the mandatory method specified by 40 CFR 763, Subpart E, Appendix E; the laboratory is currently accredited by NIST under the NVLAP for airborne sample analysis of asbestos by TEM; the laboratory will use analysts (names shall be provided) that are currently evaluated as competent with demonstrated proficiency under the NIST NVLAP for airborne sample analysis of asbestos by TEM.
 - (4) PCM/TEM: The laboratory is fully equipped and each analyst (name shall be provided) possesses demonstrated proficiency in conducting PCM and TEM

analysis of airborne samples using NIOSH Pub No. 84-100Method 7400 PCM and NIOSH Pub No. 84-100 Method 7402 (TEM confirmation of asbestos content of PCM results) from the same filter.

i. Disposal Facility, Transporter: The Contractor shall provide written evidence that the landfill to be used is approved for asbestos disposal by the USEPA and state and local regulatory agencies. Copies of signed agreements between the Contractor (including subcontractors and transporters) and the asbestos waste disposal facility to accept and dispose of all asbestos containing waste generated during the performance of this contract shall be provided. Qualifications shall be provided for each subcontractor or transporter to be used, indicating previous experience in transport and disposal of asbestos waste to include all required state and local waste hauler requirements for asbestos. The Contractor and transporters shall meet the DOT requirements of 49 CFR 171, 49 CFR 172, and 49 CFR 173 as well as registration requirements of 49 CFR 107 and other applicable state or local requirements. The disposal facility shall meet the requirements of 40 CFR 61, Sections .154 or .155, as required in 40 CFR 61, Section .150(b), and other applicable state or local requirements.

1.6.3 Federal, State or Local Citations on Previous Projects

The Contractor and all subcontractors shall submit a statement, signed by an officer of the company, containing a record of any citations issued by Federal, State or local regulatory agencies relating to asbestos activities (including projects, dates, and resolutions); a list of penalties incurred through non-compliance with asbestos project specifications, including liquidated damages, overruns in scheduled time limitations and resolutions; and situations in which an asbestos-related contract has been terminated (including projects, dates, and reasons for terminations). If there are none, a negative declaration signed by an officer of the company shall be provided.

1.7 REGULATORY REQUIREMENTS

In addition to detailed requirements of this specification, work performed under this contract shall comply with EM 385-1-1, applicable federal, state, and local laws, ordinances, criteria, rules and regulations regarding handling, storing, transporting, and disposing of asbestos waste materials. This includes, but is not limited to, OSHA standards, 29 CFR 1926, especially Section .1101, 40 CFR 61, Subpart M and 40 CFR 763. Matters of interpretation of standards shall be submitted to the appropriate administrative agency for resolution before starting work. Where the requirements of this specification, applicable laws, criteria, ordinances, regulations, and referenced documents vary, the most stringent requirements shall apply. The following state and local laws, rules and regulations regarding demolition, removal, encapsulation, construction alteration, repair, maintenance, renovation, spill/emergency cleanup, housekeeping, handling, storing, transporting and disposing of asbestos material apply:

WAC 296-64-General Safety and Health Standards

WAC 296-62-General Occupational Health Standards

WAC 296-155-Asbestos Removal Training Requirements

Puget Sound Air Pollution Control Agency (PSAPCA), Article 4-Removal and Encapsulation of Asbestos Material

1.8 SAFETY AND HEALTH PROGRAM AND PLANS

The Contractor shall develop and submit a written comprehensive site-specific Accident Prevention Plan at least 30 days prior to the preconstruction conference. The Accident Prevention Plan shall address requirements of EM 385-1-1, Appendix A, covering onsite work to be performed by the Contractor and subcontractors. The Accident Prevention Plan shall incorporate an Asbestos Hazard Abatement Plan, and Activity Hazard Analyses as separate appendices into 1 site specific Accident Prevention Plan document. Any portions of the Contractor's overall Safety and Health Program that are referenced in the Accident Prevention Plan, e.g., respirator program, hazard communication program, confined space entry program, etc., shall be included as appendices to the Accident Prevention Plan. The plan shall take into consideration all the individual asbestos abatement work tasks necessary to complete the work. The plan shall be prepared, signed (and sealed, including certification number if required), and dated by the Contractor's Designated IH, Competent Person, and Project Supervisor.

1.8.1 Asbestos Hazard Abatement Plan Appendix

The Asbestos Hazard Abatement Plan appendix to the Accident Prevention Plan shall include, but not be limited to, the following:

- a. The personal protective equipment to be used;
- b. The location and description of regulated areas including clean and dirty areas, access tunnels, and decontamination unit (clean room, shower room, equipment room, storage areas such as load-out unit);
- c. Initial exposure assessment in accordance with 29 CFR 1926, Section .1101;
- d. Level of supervision;
- e. Method of notification of other employers at the worksite;
- f. Abatement method to include containment and control procedures;
- g. Interface of trades involved in the construction;
- h. Sequencing of asbestos related work;
- i. Storage and disposal procedures and plan;
- j. Type of wetting agent and asbestos encapsulant to be used;
- k. Location of local exhaust equipment;
- I. Air monitoring methods (personal, environmental and clearance);
- m. Bulk sampling and analytical methods (if required);
- n. A detailed description of the method to be employed in order to control the spread of ACM wastes and airborne fiber concentrations;

- o. Fire and medical emergency response procedures;
- p. The security procedures to be used for all regulated areas.

1.8.2 Activity Hazard Analyses Appendix

Activity Hazard Analyses, for each major phase of work, shall be submitted and updated during the project. The Activity Hazard Analyses format shall be in accordance with EM 385-1-1 (Figure 1-1). The analysis shall define the activities to be performed for a major phase of work, identify the sequence of work, the specific hazards anticipated, and the control measures to be implemented to eliminate or reduce each hazard to an acceptable level. Work shall not proceed on that phase until the Activity Hazard Analyses has been accepted and a preparatory meeting has been conducted by the Contractor to discuss its contents with everyone engaged in the activities, including the onsite Government representatives. The Activity Hazard Analyses shall be continuously reviewed and, when appropriate, modified to address changing site conditions or operations.

1.9 PRECONSTRUCTION CONFERENCE AND ONSITE SAFETY

The Contractor and the Contractor's Designated Competent Person, Project Supervisor, and Designated IH shall meet with the Contracting Officer prior to beginning work at a safety preconstruction conference to discuss the details of the Contractor's submitted Accident Prevention Plan to include the Asbestos Hazard Abatement Plan and Activity Hazard Analyses appendices. Deficiencies in the Accident Prevention Plan will be discussed and the Accident Prevention Plan shall be revised to correct the deficiencies and resubmitted for acceptance. Any changes required in the specification as a result of the Accident Prevention Plan shall be identified specifically in the plan to allow for free discussion and acceptance by the Contracting Officer, prior to the start of work. Onsite work shall not begin until the Accident Prevention Plan has been accepted. A copy of the written Accident Prevention Plan shall be maintained onsite. Changes and modifications to the accepted Accident Prevention Plan shall be made with the knowledge and concurrence of the Designated IH, the Project Supervisor, Designated Competent Person, and the Contracting Officer. Should any unforeseen hazard become evident during the performance of the work, the Designated IH shall bring such hazard to the attention of the Project Supervisor, Designated Competent Person, and the Contracting Officer, both verbally and in writing, for resolution as soon as possible. In the interim, all necessary action shall be taken by the Contractor to restore and maintain safe working conditions in order to safeguard onsite personnel, visitors, the public. and the environment. Once accepted by the Contracting Officer, the Accident Prevention Plan, including the Asbestos Hazard Abatement Plan and Activity Hazard Analyses will be enforced as if an addition to the contract. Disregarding the provisions of this contract or the accepted Accident Prevention Plan will be cause for stopping of work, at the discretion of the Contracting Officer, until the matter has been rectified.

1.10 SECURITY

Security shall be provided for each regulated area. A log book shall be kept documenting entry into and out of the regulated area. Entry into regulated areas shall only be by personnel authorized by the Contractor and the Contracting Officer. Personnel authorized to enter regulated areas shall be trained, be medically evaluated, and wear the required personal protective equipment, for the specific regulated area to be entered.

1.11 MEDICAL REQUIREMENTS

Medical requirements shall conform to 29 CFR 1926, Section .1101.

1.11.1 Medical Examinations

Before being exposed to airborne asbestos fibers, workers shall be provided with a medical examination as required by 29 CFR 1926, Section .1101 and other pertinent state or local requirements. This requirement shall have been satisfied within the last 12 months. The same medical examination shall be given on an annual basis to employees engaged in an occupation involving asbestos and within 30 calendar days before or after the termination of employment in such occupation. X-ray films of asbestos workers shall be identified to the consulting radiologist and medical record jackets shall be marked with the word "asbestos."

1.11.1.1 Information Provided to the Physician

The Contractor shall provide the following information in writing to the examining physician:

- a. A copy of 29 CFR 1926, Section .1101 and Appendices D, E, G, and I;
- b. A description of the affected employee's duties as they relate to the employee's exposure;
- c. The employee's representative exposure level or anticipated exposure level;
- d. A description of any personal protective and respiratory equipment used or to be used;
- e. Information from previous medical examinations of the affected employee that is not otherwise available to the examining physician.

1.11.1.2 Written Medical Opinion

For each worker, a written medical opinion prepared and signed by a licensed physician indicating the following:

- a. Summary of the results of the examination.
- b. The potential for an existing physiological condition that would place the employee at an increased risk of health impairment from exposure to asbestos.
- c. The ability of the individual to wear personal protective equipment, including respirators, while performing strenuous work tasks under cold and/or heat stress conditions.
- d. A statement that the employee has been informed of the results of the examination, provided with a copy of the results, informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure, and informed of any medical condition that may result from asbestos exposure.

1.11.2 Medical and Exposure Records

Complete and accurate records shall be maintained of each employee's medical examinations, medical records, and exposure data, as required by 29 CFR 1910, Section .1910.20 and 29 CFR 1926, Section .1101 for a period of 50 years after termination of employment. Records of the required medical examinations and exposure data shall be made available, for inspection and copying, to the Assistant Secretary of Labor for Occupational Safety and Health (OSHA) or authorized representatives of the employee and an employee's physician upon request of the employee or former employee. A copy of the required medical certification for each employee shall be maintained on file at the worksite for review, as requested by the Contracting Officer or the representatives.

1.12 TRAINING PROGRAM

1.12.1 General Training Requirements

The Contractor shall establish a training program as specified by EPA Model Accreditation Plan (MAP), training requirements at 40 CFR 763, Subpart E, Appendix C, the State of Washington regulation no. WAC 296-155, OSHA requirements at 29 CFR 1926, Section .1101(k)(9), and this specification. Contractor employees shall complete the required training for the type of work they are to perform and such training shall be documented and provided to the Contracting Officer as specified in paragraph QUALIFICATIONS.

1.12.2 Project Specific Training

Prior to commencement of work, each worker shall be instructed by the Contractor's Designated IH and Competent Person in the following project specific training:

- a. The hazards and health effects of the specific types of ACM to be abated;
- b. The content and requirements of the Contractor's Accident Prevention Plan to include the Asbestos Hazard Abatement Plan and Activity Hazard Analyses and site-specific safety and health precautions;
- c. Hazard Communication Program;
- d. Hands-on training for each asbestos abatement technique to be employed;
- e. Heat and/or cold stress monitoring specific to this project;
- f. Air monitoring program and procedures;
- q. Medical surveillance to include medical and exposure record-keeping procedures;
- h. The association of cigarette smoke and asbestos-related disease;
- i. Security procedures;
- j. Specific work practice controls and engineering controls required for each Class of work in accordance with 29 CFR 1926, Section .1101.

1.13 RESPIRATORY PROTECTION PROGRAM

The Contractor's Designated IH shall establish in writing, and implement a respiratory protection program in accordance with 29 CFR 1926, Section .1101, 29 CFR 1910, Section .134, ANSI Z88.2, CGA G-7, CGA G-7.1. The Contractor's Designated IH shall establish minimum respiratory protection requirements based on measured or anticipated levels of airborne asbestos fiber concentrations encountered during the performance of the asbestos abatement work. The Contractor's respiratory protection program shall include, but not be limited to, the following elements:

- a. The company policy, used for the assignment of individual responsibility, accountability, and implementation of the respiratory protection program.
- The standard operating procedures covering the selection and use of respirators.
 Respiratory selection shall be determined by the hazard to which the worker is exposed.
- c. Medical evaluation of each user to verify that the worker may be assigned to an activity where respiratory protection is required.
- d. Training in the proper use and limitations of respirators.
- e. Respirator fit-testing, i.e., quantitative, qualitative and individual functional fit checks.
- f. Regular cleaning and disinfection of respirators.
- g. Routine inspection of respirators during cleaning and after each use when designated for emergency use.
- h. Storage of respirators in convenient, clean, and sanitary locations.
- i. Surveillance of regulated area conditions and degree of employee exposure (e.g., through air monitoring).
- j. Regular evaluation of the continued effectiveness of the respiratory protection program.
- k. Recognition and procedures for the resolution of special problems as they affect respirator use (e.g., no facial hair that comes between the respirator face piece and face or interferes with valve function; prescription eye wear usage; contact lenses usage; etc.).
- I. Proper training in putting on and removing respirators.

1.13.1 Respiratory Fit Testing

A qualitative or quantitative fit test conforming to 29 CFR 1926, Section 1101, Appendix C shall be conducted by the Contractor's Designated IH for each Contractor worker required to wear a respirator, and for the Contracting Officer and authorized visitors who enter a regulated area where respirators are required to be worn. A respirator fit test shall be performed for each worker wearing a negative-pressure respirator prior to initially wearing a

respirator on this project and every 6 months thereafter. The qualitative fit tests may be used only for testing the fit of half-mask respirators where they are permitted to be worn, or of full-facepiece air purifying respirators where they are worn at levels at which half-facepiece air purifying respirators are permitted. If physical changes develop that will affect the fit, a new fit test for the worker shall be performed. Functional fit checks shall be performed by employees each time a respirator is put on and in accordance with the manufacturer's recommendation.

1.13.2 Respirator Selection and Use Requirements

The Contractor shall provide respirators, and ensure that they are used as required by 29 CFR 1926. Section .1101 and in accordance with the manufacturer's recommendations. Respirators shall be jointly approved by the Mine Safety and Health Administration and the National Institute for Occupational Safety and Health (MSHA/NIOSH), or by NIOSH, under the provisions of 42 CFR 84, for use in environments containing airborne asbestos fibers. Personnel who handle ACM, enter regulated areas that require the wearing of a respirator, or who are otherwise carrying out abatement activities that require the wearing of a respirator, shall be provided with approved respirators that are fully protective of the worker at the measured or anticipated airborne asbestos concentration level to be encountered. For airpurifying respirators, the particulate filter portion of the cartridges or canister approved for use in airborne asbestos environments shall be high-efficiency particulate air (HEPA). The initial respirator selection and the decisions regarding the upgrading or downgrading of respirator type shall be made by the Contractor's Designated IH based on the measured or anticipated airborne asbestos fiber concentrations to be encountered. Recommendations made by the Contractor's Designated IH to downgrade respirator type shall be submitted in writing to the Contracting Officer. The Contractor's Designated Competent Person in consultation with the Designated IH, shall have the authority to take immediate action to upgrade or downgrade respiratory type when there is an immediate danger to the health and safety of the wearer. Respirators shall be used in the following circumstances:

- a. During all Class I asbestos jobs.
- b. During Class II work which is not performed using wet methods. Respirators need not be worn during removal of ACM from sloped roofs when a negative exposure assessment has been made and ACM is removed in an intact state.
- c. During all work where employees are exposed above the PEL-TWA or PEL-Excursion Limit.
- d. In emergencies

1.13.3 Class I Work

The Contractor shall provide: (1) a tight-fitting, powered air purifying respirator equipped with high efficiency filters, or (2) a full-facepiece supplied air respirator operated in the pressure demand mode, equipped with HEPA egress cartridges, or (3) an auxiliary positive pressure self-contained breathing apparatus, for all employees within the regulated area where Class I work is being performed; provided that a negative exposure assessment has not been produced, and that the exposure level will not exceed 1 f/cc as an 8-hour time weighted average. A full-facepiece supplied air respirator, operated in the pressure demand mode, equipped with an auxiliary positive pressure self-contained breathing apparatus shall be

provided under such conditions, if the exposure assessment indicates exposure levels above 1 f/cc as an 8-hour time weighted average.

1.13.4 Class II Work

The Contractor shall provide an air purifying respirator, other than a disposable respirator, equipped with high-efficiency filters whenever the employee performs Class II jobs where the Contractor does not produce a negative exposure assessment.

1.13.5 Sanitation

Employees who wear respirators shall be permitted to leave work areas to wash their faces and respirator facepieces whenever necessary to prevent skin irritation associated with respirator use.

1.14 HAZARD COMMUNICATION PROGRAM

A hazard communication program shall be established and implemented in accordance with 29 CFR 1926, Section .59. Material safety data sheets (MSDSs) shall be provided for all hazardous materials brought onto the worksite. One copy shall be provided to the Contracting Officer and 1 copy shall be included in the Contractor's Hazard Communication Program.

1.15 LICENSES, PERMITS AND NOTIFICATIONS

1.15.1 General Legal Requirements

Necessary licenses, permits and notifications shall be obtained in conjunction with the project's asbestos abatement, transportation and disposal actions and timely notification furnished of such actions as required by federal, state, regional, and local authorities. The Contractor shall notify the local air pollution control district/agency and state OSHA program in writing, at least 10 days prior to the commencement of work, in accordance with 40 CFR 61, Subpart M, and state and local requirements to include the mandatory "Notification of Demolition and Renovation Record" form and other required notification documents. Notification shall be by Certified Mail, Return Receipt Requested. The Contractor shall furnish copies of the receipts to the Contracting Officer, in writing, prior to the commencement of work. A copy of the rental company's written acknowledgment and agreement shall be provided as required by paragraph RENTAL EQUIPMENT. For licenses, permits, and notifications that the Contractor is responsible for obtaining, the Contractor shall pay any associated fees or other costs incurred.

1.15.2 Litigation and Notification

The Contractor shall notify the Contracting Officer if any of the following occur:

- a. The Contractor or any of the subcontractors are served with notice of violation of any law, regulation, permit or license which relates to this contract;
- b. Proceedings are commenced which could lead to revocation of related permits or licenses; permits, licenses or other Government authorizations relating to this contract are revoked:

- c. Litigation is commenced which would affect this contract;
- d. The Contractor or any of the subcontractors become aware that their equipment or facilities are not in compliance or may fail to comply in the future with applicable laws or regulations.

1.16 PERSONAL PROTECTIVE EQUIPMENT

Three complete sets of personal protective equipment shall be made available to the Contracting Officer and authorized visitors for entry to the regulated area. Contracting Officer and authorized visitors shall be provided with training equivalent to that provided to Contractor employees in the selection, fitting, and use of the required personal protective equipment and the site safety and health requirements. Contractor workers shall be provided with personal protective clothing and equipment and the Contractor shall ensure that it is worn properly. The Contractor's Designated IH and Designated Competent Person shall select and approve all the required personal protective clothing and equipment to be used.

1.16.1 Respirators

Respirators shall be in accordance with paragraph RESPIRATORY PROTECTION PROGRAM.

1.16.2 Whole Body Protection

Personnel exposed to airborne concentrations of asbestos that exceed the PELs, or for all OSHA Classes of work for which a required negative exposure assessment is not produced, shall be provided with whole body protection and such protection shall be worn properly. The Contractor's Designated IH and Competent Person shall select and approve the whole body protection to be used. The Competent Person shall examine work suits worn by employees at least once per work shift for rips or tears that may occur during performance of work. When rips or tears are detected while an employee is working, rips and tears shall be immediately mended, or the work suit shall be immediately replaced. Disposable whole body protection shall be disposed of as asbestos contaminated waste upon exiting from the regulated area. Reusable whole body protection worn shall be either disposed of as asbestos contaminated waste upon exiting from the regulated area or be properly laundered in accordance with 29 CFR 1926, Section .1101. Whole body protection used for asbestos abatement shall not be removed from the worksite by a worker to be cleaned. Recommendations made by the Contractor's Designated IH to downgrade whole body protection shall be submitted in writing to the Contracting Officer. The Contractor's Designated Competent Person, in consultation with the Designated IH, has the authority to take immediate action to upgrade or downgrade whole body protection when there is an immediate danger to the health and safety of the wearer.

1.16.2.1 Coveralls

Disposable-breathable or reusable coveralls with a zipper front shall be provided. Sleeves shall be secured at the wrists, and foot coverings secured at the ankles.

1.16.2.2 Underwear

Disposable underwear shall be provided. If reusable underwear are used, they shall be disposed of as asbestos contaminated waste or laundered in accordance with 29 CFR 1926, Section .1101. Asbestos abatement workers shall not remove contaminated reusable underwear worn during abatement of ACM from the site to be laundered.

1.16.2.3 Work Clothing

An additional coverall shall be provided when the abatement and control method employed does not provide for the exit from the regulated area directly into an attached decontamination unit. Cloth work clothes for wear under the protective coverall, and foot coverings, shall be provided when work is being conducted in low temperature conditions. Cloth work clothes shall be either disposed of as asbestos contaminated waste or properly laundered in accordance with 29 CFR 1926, Section .1101.

1.16.2.4 Gloves

Gloves shall be provided to protect the hands. Where there is the potential for hand injuries (i.e., scrapes, punctures, cuts, etc.) a suitable glove shall be provided and used.

1.16.2.5 Foot Coverings

Cloth socks shall be provided and worn next to the skin. Footwear, as required by OSHA and EM 385-1-1, that is appropriate for safety and health hazards in the area shall be worn. Rubber boots shall be used in moist or wet areas. Reusable footwear removed from the regulated area shall be thoroughly decontaminated or disposed of as ACM waste. Disposable protective foot covering shall be disposed of as ACM waste. If rubber boots are not used, disposable foot covering shall be provided.

1.16.2.6 Head Covering

Hood type disposable or reusable head covering shall be provided. In addition, protective head gear (hard hats) shall be provided as required. Hard hats shall only be removed from the regulated area after being thoroughly decontaminated.

1.16.2.7 Protective Eye Wear

Eye protection provided shall be in accordance with ANSI Z87.1.

1.17 HYGIENE FACILITIES AND PRACTICES

The Contractor shall establish a decontamination area for the decontamination of employees, material and equipment. The Contractor shall ensure that employees enter and exit the regulated area through the decontamination area.

1.17.1 Shower Facilities

Shower facilities, when provided, shall comply with 29 CFR 1910, Section .141(d)(3).

1.17.2 -Stage Decontamination Area

A temporary negative pressure decontamination unit that is adjacent and attached in a leaktight manner to the regulated area shall be provided. Utilization of prefabricated units shall have prior approval of the Contracting Officer. The decontamination unit shall have an equipment room and a clean room separated by a shower that complies with 29 CFR 1910, Section .141 (unless the Contractor can demonstrate that such facilities are not feasible). Equipment and surfaces of containers filled with ACM shall be cleaned prior to removing them from the equipment room or area. Surfaces of the equipment room shall be wet wiped 2 times after each shift. Materials used for wet wiping shall be disposed of as asbestos contaminated waste. Two separate lockers shall be provided for each asbestos worker, one in the equipment room and one in the clean room. Hot water service may be secured from the building hot water system provided backflow protection is installed by the Contractor at the point of connection. Should sufficient hot water be unavailable, the Contractor shall provide a minimum 40 gal. electric water heater with minimum recovery rate of 20 gal. per hour and a temperature controller for each showerhead. The Contractor shall provide a minimum of one shower. Instantaneous type in-line water heater may be incorporated at each shower head in lieu of hot water heater, upon approval by the Contracting Officer. Flow and temperature controls shall be located within the shower and shall be adjustable by the user. The wastewater pump shall be sized for 1.25 times the showerhead flow-rate at a pressure head sufficient to satisfy the filter head loss and discharge line losses. The pump shall supply a minimum 25 gpm flow with 35 ft. of pressure head. Used shower water shall be collected and filtered to remove asbestos contamination. Filters and residue shall be disposed of as asbestos contaminated material. Filtered water shall be discharged to the sanitary system. Wastewater filters shall be installed in series with the first stage pore size of 20 microns and the second stage pore size of 5 microns. The floor of the decontamination unit's clean room shall be kept dry and clean at all times. Water from the shower shall not be allowed to wet the floor in the clean room. Surfaces of the clean room and shower shall be wet-wiped 2 times after each shift change with a disinfectant solution. Proper housekeeping and hygiene requirements shall be maintained. Soap and towels shall be provided for showering, washing and drying. Any cloth towels provided shall be disposed of as ACM waste or shall be laundered in accordance with 29 CFR 1926, Section .1101.

1.17.3 Load-Out Unit

A temporary load-out unit that is adjacent and connected to the regulated area and access tunnel shall be provided. Utilization of prefabricated units shall have prior approval of the Contracting Officer. The load-out unit shall be attached in a leak-tight manner to each regulated area. Surfaces of the load-out unit and access tunnel shall be adequately wetwiped 2 times after each shift change. Materials used for wet wiping shall be disposed of as asbestos contaminated waste.

1.17.4 Single Stage Decontamination Area

A decontamination area (equipment room/area) shall be provided for Class I work involving less than 25 feet or 10 square feet of TSI asbestos work operations where exposures exceed the PELs or where there is no negative exposure assessment produced before the operation. The equipment room or area shall be adjacent to the regulated area for the decontamination of employees, material, and their equipment which is contaminated with asbestos. The equipment room or area shall consist of an area covered by an impermeable drop cloth on the floor or horizontal working surface. The area must be of sufficient size to accommodate

cleaning of equipment and removing personal protective equipment without spreading contamination beyond the area. Surfaces of the equipment room shall be wet wiped 2 times after each shift. Materials used for wet wiping shall be disposed of as asbestos contaminated waste.

1.17.5 Decontamination Area Entry Procedures

The Contractor shall ensure that employees entering the decontamination area through the clean room or clean area:

- a. Remove street clothing in the clean room or clean area and deposit it in lockers.
- b. Put on protective clothing and respiratory protection before leaving the clean room or clean area.
- c. Pass through the equipment room to enter the regulated area.

1.17.6 Decontamination Area Exit Procedures

The Contractor shall ensure that the following procedures are followed:

- a. Before leaving the regulated area, respirators shall be worn while employees remove all gross contamination and debris from their work clothing using a HEPA vacuum.
- b. Employees shall remove their protective clothing in the equipment room and deposit the clothing in labeled impermeable bags or containers for disposal and/or laundering.
- c. Employees shall not remove their respirators in the equipment room.
- d. Employees shall shower prior to entering the clean room. If a shower has not been located between the equipment room and the clean room or the work is performed outdoors, the Contractor shall ensure that employees engaged in Class I asbestos jobs: a) Remove asbestos contamination from their work suits in the equipment room or decontamination area using a HEPA vacuum before proceeding to a shower that is not adjacent to the work area; or b) Remove their contaminated work suits in the equipment room, without cleaning worksuits, and proceed to a shower that is not adjacent to the work area.
- e. After showering, employees shall enter the clean room before changing into street clothes.

1.17.7 Lunch Areas

The Contractor shall provide lunch areas in which the airborne concentrations of asbestos are below 0.01 f/cc.

1.17.8 Smoking

Smoking, if allowed by the Contractor, shall only be permitted in designated areas approved by the Contracting Officer.

1.18 REGULATED AREAS

All Class I and Class II asbestos work shall be conducted within regulated areas. The regulated area shall be demarcated to minimize the number of persons within the area and to protect persons outside the area from exposure to airborne asbestos. Where critical barriers or negative pressure enclosures are used, they shall demarcate the regulated area. Access to regulated areas shall be limited to authorized persons. The Contractor shall control access to regulated areas, ensure that only authorized personnel enter, and verify that Contractor required medical surveillance, training and respiratory protection program requirements are met prior to allowing entrance.

1.19 WARNING SIGNS AND TAPE

Warning signs and tape printed in English shall be provided at the regulated boundaries and entrances to regulated areas. The Contractor shall ensure that all personnel working in areas contiguous to regulated areas comprehend the warning signs. Signs shall be located to allow personnel to read the signs and take the necessary protective steps required before entering the area. Warning signs shall be in vertical format conforming to 29 CFR 1910 and 29 CFR 1926, Section .1101, a minimum of 20 by 14 inches, and displaying the following legend in the lower panel:

DANGER ASBESTOS CANCER AND LUNG DISEASE HAZARD AUTHORIZED PERSONNEL ONLY

Spacing between lines shall be at least equal to the height of the upper of any two lines. Warning tape shall be provided.

1.20 WARNING LABELS

Warning labels shall be affixed to all asbestos disposal containers used to contain asbestos materials, scrap, waste debris, and other products contaminated with asbestos. Containers with preprinted warning labels conforming to requirements are acceptable. Warning labels shall conform to 29 CFR 1926, Section .1101 and shall be of sufficient size to be clearly legible displaying the following legend:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

1.21 LOCAL EXHAUST VENTILATION

Local exhaust ventilation units shall conform to ANSI Z9.2 and 29 CFR 1926, Section .1101. Filters on local exhaust system equipment shall conform to ANSI Z9.2 and UL 586. Filter shall be UL labeled.

1.22 TOOLS

Vacuums shall be leak proof to the filter, equipped with HEPA filters, of sufficient capacity and necessary capture velocity at the nozzle or nozzle attachment to efficiently collect, transport and retain the ACM waste material. Power tools shall not be used to remove ACM unless the tool is equipped with effective, integral HEPA filtered exhaust ventilation capture and collection system, or has otherwise been approved for use by the Contracting Officer. Residual asbestos shall be removed from reusable tools prior to storage and reuse. Reusable tools shall be thoroughly decontaminated prior to being removed from regulated areas.

1.23 RENTAL EQUIPMENT

If rental equipment is to be used, written notification shall be provided to the rental agency, concerning the intended use of the equipment, the possibility of asbestos contamination of the equipment and the steps that will be taken to decontaminate such equipment. A written acceptance of the terms of the Contractor's notification shall be obtained from the rental agency.

1.24 AIR MONITORING EQUIPMENT

The Contractor's Designated IH shall approve air monitoring equipment to be used to collect samples. The equipment shall include, but shall not be limited to:

- a. High-volume sampling pumps that can be calibrated and operated at a constant airflow up to 16 liters per minute when equipped with a sampling train of tubing and filter cassette.
- b. Low-volume, battery powered, body-attachable, portable personal pumps that can be calibrated to a constant airflow up to approximately 3.5 liters per minute when equipped with a sampling train of tubing and filter cassette, and a self-contained rechargeable power pack capable of sustaining the calibrated flow rate for a minimum of 10 hours. The pumps shall also be equipped with an automatic flow control unit which shall maintain a constant flow, even as filter resistance increases due to accumulation of fiber and debris on the filter surface.
- c. Single use standard 25 mm diameter cassette, open face, 0.8 micron pore size, mixed cellulose ester membrane filters and cassettes with 50 mm electrically conductive extension cowl, and shrink bands, to be used with low flow pumps in accordance with 29 CFR 1926, Section .1101 for personal air sampling.
- d. Single use standard 25 mm diameter cassette, open face, 0.45 micron pore size, mixed cellulose ester membrane filters and cassettes with 50 mm electrically conductive cowl, and shrink bands, to be used with high flow pumps when conducting environmental area sampling using NIOSH Pub No. 84-100 Methods 7400 and 7402, (and the transmission electric microscopy method specified at 40 CFR 763 if required).
- e. Appropriate plastic tubing to connect the air sampling pump to the selected filter cassette.

f. A flow calibrator capable of calibration to within plus or minus 2 percent of reading over a temperature range of minus 4 to plus 140 degrees F and traceable to a NIST primary standard.

1.25 EXPENDABLE SUPPLIES

1.25.1 Glovebag

Glovebags shall be provided as described in 29 CFR 1926, Section .1101. The glovebag assembly shall be 6 mil thick plastic, prefabricated and seamless at the bottom with preprinted OSHA warning label.

1.25.2 Duct Tape

Industrial grade duct tape of appropriate widths suitable for bonding sheet plastic and disposal container shall be provided.

1.25.3 Disposal Containers

Leak-tight (defined as solids, liquids, or dust that cannot escape or spill out) disposal containers shall be provided for ACM wastes as required by 29 CFR 1926 Section .1101.

1.25.4 Disposal Bags

Leak-tight bags, 6 mil thick, shall be provided for placement of asbestos generated waste.

1.25.5 Fiberboard Drums

Fiberboard drums shall be leaktight.

1.25.6 Cardboard Boxes

Heavy-duty corrugated cardboard boxes, coated with plastic or wax to retard deterioration from moisture, shall be if required by state and local requirements. Boxes shall fit into selected ACM disposal bags. Filled boxes shall be sealed leak-tight with duct tape.

1.25.7 Sheet Plastic

Sheet plastic shall be polyethylene of 6 mil minimum thickness and shall be provided in the largest sheet size necessary to minimize seams, as indicated on the project drawings. Film shall be clear, frosted or black and conform to ASTM D 4397. Viewing windows to the work area must be provided.

1.25.7.1 Flame Resistant

Where a potential for fire exists, flame-resistant sheets shall be provided. Film shall conform to the requirements of NFPA 701.

1.25.7.2 Reinforced

Reinforced sheets shall be provided where high skin strength is required, such as where it constitutes the only barrier between the regulated area and the outdoor environment. The sheet stock shall consist of translucent, nylon-reinforced or woven-polyethylene thread laminated between 2 layers of polyethylene film. Film shall meet flame resistant standards of NFPA 701.

1.25.8 Amended Water

Amended water shall meet the requirements of ASTM D 1331.

1.25.9 Mastic Removing Solvent

Mastic removing solvent shall be nonflammable and shall not contain methylene chloride, glycol ether, or halogenated hydrocarbons. Solvents used onsite shall have a flash point greater than 140 degrees F.

1.25.10 Leak-tight Wrapping

Two layers of 6 mil minimum thick polyethylene sheet stock shall be used for the containment of removed asbestos-containing components or materials such as reactor vessels, large tanks, boilers, insulated pipe segments and other materials too large to be placed in disposal. Upon placement of the ACM component or material, each layer shall be individually leak-tight sealed with duct tape.

1.25.11 Viewing Inspection Window

Where feasible, a minimum of 1 clear, 1/8 inch thick, acrylic sheet, 18 by 24 inches, shall be installed as a viewing inspection window at eye level on a wall in each containment enclosure. The windows shall be sealed leak-tight with industrial grade duct tape.

1.25.12 Wetting Agents

Removal encapsulant (a penetrating encapsulant) shall be provided when conducting removal abatement activities that require a longer removal time or are subject to rapid evaporation of amended water. The removal encapsulant shall be capable of wetting the ACM and retarding fiber release during disturbance of the ACM greater than or equal to that provided by amended water. Performance requirements for penetrating encapsulants are specified in paragraph ENCAPSULANTS.

1.25.13 Strippable Coating

Strippable coating in aerosol cans shall be used to adhere to surfaces and to be removed cleanly by stripping, at the completion of work. This work shall only be done in well ventilated areas.

1.26 MISCELLANEOUS ITEMS

A sufficient quantity of other items, such as, but not limited to: scrapers, brushes, brooms, staple guns, tarpaulins, shovels, rubber squeegees, dust pans, other tools, scaffolding,

staging, enclosed chutes, wooden ladders, lumber necessary for the construction of containments, UL approved temporary electrical equipment, material and cords, ground fault circuit interrupters, water hoses of sufficient length, fire extinguishers, first aid kits, portable toilets, logbooks, log forms, markers with indelible ink, spray paint in bright color to mark areas, project boundary fencing, etc., shall be provided.

2 PRODUCTS

2.1 ENCAPSULANTS

Encapsulants shall conform to USEPA requirements, shall contain no toxic or hazardous substances and no solvent and shall meet the following requirements:

ALL ENCAPSULANTS

| Requirement | Test Standard |
|---|------------------------------|
| Flame Spread - 25, Smoke Emission - 50 | ASTM E 84 |
| Combustion Toxicity | Univ. of Pittsburgh Protocol |
| Zero Mortality Life Expectancy, 20 yrs | ASTM C 732 |
| Accelerated Aging Test Permeability, Minimum | ASTM E 96 |
| 0.4 perms | |

Additional Requirements for Bridging Encapsulant

| Requirement | Test | Standard |
|---|------|----------|
| Cohesion/Adhesion Test, 50 pounds of force/foot | ASTM | E 736 |
| Fire Resistance, Negligible | ASTM | E 119 |
| affect on fire resistance | | |
| rating over 3 hour test (Classif | ied | |
| by UL for use over fibrous and | | |
| cementitious sprayed fireproofin | g) | |
| Impact Resistance, Minimum | ASTM | D 2794 |
| 43 in-lb (Gardner Impact Test) | | |
| Flexibility, no rupture or | ASTM | D 522 |
| cracking (Mandrel Bend Test) | | |
| | | |

Additional Requirements for Penetrating Encapsulant

| - | | | _ | - |
|---|------|----------|---|---|
| Requirement | Test | Standard | | |
| Cohesion/Adhesion Test, 50 pounds of force/foot | ASTM | E 736 | | |
| Fire Resistance, Negligible affect on fire resistance | ASTM | E 119 | | |
| rating over 3 hour test(Classifi | .ed | | | |
| by UL for use over fibrous and | | | | |
| cementitious sprayed fireproofin | ıg) | | | |
| Impact Resistance, Minimum | ASTM | D 2794 | | |
| 43 in-lb (Gardner Impact Test) | | | | |

Flexibility, no rupture or ASTM D 522 cracking (Mandrel Bend Test)

Additional Requirements for Lockdown Encapsulant

Requirement

Test Standard

Fire Resistance, Negligible ASTM E 119
affect on fire resistance
rating over 3 hour test(Tested
with fireproofing over encapsulant
applied directly to steel member)
Bond Strength, 100 pounds of ASTM E 736
force/foot (Tests
compatibility with cementitious
and fibrous fireproofing)

3 EXECUTION

3.1 GENERAL REQUIREMENTS

Asbestos abatement work tasks shall be performed as shown on the detailed plans and drawings, as summarized in paragraph DESCRIPTION OF WORK and the Contractor's Accident Prevention Plan. Asbestos Hazard Abatement Plan, and the Activity Hazard Analyses. The Contractor shall use the engineering controls and work practices required in 29 CFR 1926, Section .1101(g) in all operations regardless of the levels of exposure. Personnel shall wear and utilize protective clothing and equipment as specified. The Contractor shall not permit eating, smoking, drinking, chewing or applying cosmetics in the regulated area. All hot work (burning, cutting, welding, etc.) shall be conducted under controlled conditions in conformance with 29 CFR 1926, Section .352, Fire Prevention. Personnel of other trades, not engaged in asbestos abatement activities, shall not be exposed at any time to airborne concentrations of asbestos unless all the administrative and personal protective provisions of the Contractor's Accident Prevention Plan are complied with. Power to the regulated area shall be locked-out and tagged in accordance with 29 CFR 1910. and temporary electrical service with ground fault circuit interrupters shall be provided as needed. Temporary electrical service shall be disconnected when necessary for wet removal. The Contractor shall stop abatement work in the regulated area immediately when the airborne total fiber concentration: (1) equals or exceeds 0.01 f/cc, or the pre-abatement concentration, whichever is greater, outside the regulated area; or (2) equals or exceeds 1.0 f/cc inside the regulated area. The Contractor shall correct the condition to the satisfaction of the Contracting Officer, including visual inspection and air sampling. Work shall resume only upon notification by the Contracting Officer. Corrective actions shall be documented.

3.2 PROTECTION OF ADJACENT WORK OR AREAS TO REMAIN

Asbestos abatement shall be performed without damage to or contamination of adjacent work or area. Where such work or area is damaged or contaminated, as verified by the Contracting Officer using visual inspection or sample analysis, it shall be restored to its original condition or decontaminated by the Contractor at no expense to the Government, as deemed appropriate by the Contracting Officer. This includes inadvertent spill of dirt, dust or debris in which it is reasonable to conclude that asbestos may exist. When these spills occur, work shall stop in all effected areas immediately and the spill shall be cleaned. When

satisfactory visual inspection and air sampling analysis results are obtained and have been evaluated by the Contractor's Designated IH and the Contracting Officer, work shall proceed.

3.3 OBJECTS

3.3.1 Removal of Mobile Objects

Mobile objects, furniture, and equipment will be removed from the area of work by the Government before asbestos abatement work begins. Carpets, draperies, and other items contaminated by the contractor shall be disposed of as asbestos contaminated material at no extra cost.

3.3.2 Stationary Objects

Stationary objects may remain in place and shall be pre-cleaned using HEPA vacuum followed by adequate wet wiping. Stationary objects and furnishings shall be covered with 2 layers of polyethylene and edges sealed with duct tape.

3.4 BUILDING VENTILATION SYSTEM AND CRITICAL BARRIERS

Building ventilating systems supplying air into or returning air out of a regulated area shall be isolated by airtight seals to prevent the spread of contamination throughout the system. Airtight critical barriers shall be installed on building ventilating openings located inside the regulated area that supply or return air from the building ventilation system or serve to exhaust air from the building. The critical barriers shall consist of air-tight rigid covers for building ventilation supply and exhaust grills where the ventilation system is required to remain in service during abatement or 2 layers of polyethylene. Edges to wall, ceiling and floor surfaces shall be sealed with industrial grade duct tape.

3.5 PRE-CLEANING

Surfaces shall be cleaned by HEPA vacuum and adequately wet wiped prior to establishment of containment.

3.6 METHODS OF COMPLIANCE

3.6.1 Mandated Practices

The Contractor shall employ proper handling procedures in accordance with 29 CFR 1926 and 40 CFR 61, Subpart M, and the specified requirements. The specific abatement techniques and items identified shall be detailed in the Contractor's Asbestos Hazard Abatement Plan including, but not limited to, details of construction materials, equipment, and handling procedures. The Contractor shall use the following engineering controls and work practices in all operations, regardless of the levels of exposure:

- Vacuum cleaners equipped with HEPA filters to collect debris and dust containing ACM.
- b. Wet methods or wetting agents to control employee exposures during asbestos handling, mixing, removal, cutting, application, and cleanup; except where it can be

demonstrated that the use of wet methods is unfeasible due to, for example, the creation of electrical hazards, equipment malfunction, and in roofing.

- c. Prompt clean-up and disposal in leak-tight containers of wastes and debris contaminated with asbestos.
- d. Inspection and repair of polyethylene in work and high traffic areas.
- e. Cleaning of equipment and surfaces of containers filled with ACM prior to removing them from the equipment room or area.

3.6.2 Control Methods

The Contractor shall use the following control methods to comply with the PELs:

- a. Local exhaust ventilation equipped with HEPA filter dust collection systems;
- b. Enclosure or isolation of processes producing asbestos dust;
- ventilation of the regulated area to move contaminated air away from the breathing zone of employees and toward a filtration or collection device equipped with a HEPA filter;
- d. Use of other work practices and engineering controls:
- e. Where the feasible engineering and work practice controls described above are not sufficient to reduce employee exposure to or below the PELs, the Contractor shall use them to reduce employee exposure to the lowest levels attainable by these controls and shall supplement them by the use of respiratory protection that complies with paragraph, RESPIRATORY PROTECTION PROGRAM.

3.6.3 Unacceptable Practices

The following work practices and engineering controls shall not be used for work related to asbestos or for work which disturbs ACM, regardless of measured levels of asbestos exposure or the results of initial exposure assessments:

- a. High-speed abrasive disc saws that are not equipped with point of cut ventilator or enclosures with HEPA filtered exhaust air.
- b. Compressed air used to remove asbestos, or materials containing asbestos, unless the compressed air is used in conjunction with an enclosed ventilation system designed to capture the dust cloud created by the compressed air.
- c. Dry sweeping, shoveling, or other dry clean-up of dust and debris containing ACM.
- d. Employee rotation as a means of reducing employee exposure to asbestos.

3.6.4 Class I Work Procedures

In addition to requirements of paragraphs Mandated Practices and Control Methods, the following engineering controls and work practices shall be used:

- a. A Competent Person shall supervise the installation and operation of the control system.
- b. For jobs involving the removal of more than 25 feet or 10 square feet of TSI or surfacing material, the Contractor shall place critical barriers over all openings to the regulated area.
- c. HVAC systems shall be isolated in the regulated area by sealing with a double layer of plastic or air-tight rigid covers.
- d. Impermeable dropcloths (6 mil or greater thickness) shall be placed on surfaces beneath all removal activity.
- e. Objects within the regulated area shall be handled as specified in paragraph OBJECTS.
- f. Where a negative exposure assessment has not been provided or where exposure monitoring shows the PEL was exceeded, the regulated area shall be ventilated to move contaminated air away from the employee's breathing zone toward a HEPA unit or collection device.

3.6.5 Specific Control Methods for Class I Work

In addition to requirements of paragraph Class I Work Procedures, Class I asbestos work shall be performed using the control methods identified in the subparagraphs below.

3.6.5.1 Negative Pressure Enclosure (NPE) System

The NPE system shall provide at least 4 air changes per hour inside the containment. The local exhaust unit equipment shall be operated 24 hours per day until the containment is removed, and shall be leak-proof to the filter and equipped with HEPA filters. Air movement shall be directed away from the employees and toward a HEPA filtration device. The NPE shall be smoke tested for leaks at the beginning of each shift. Local exhaust equipment shall be sufficient to maintain a minimum pressure differential of minus 0.02 inch of water column relative to adjacent, unsealed areas. Pressure differential shall be monitored continuously, 24 hours per day, with an automatic manometric recording instrument. Pressure differential recordings shall be provided daily on the same day collected. Readings shall be reviewed by the Contractor's Designated Competent Person and IH prior to submittal. The Contracting Officer shall be notified immediately if the pressure differential falls below the prescribed minimum. The building ventilation system shall not be used as the local exhaust system for the regulated area. The local exhaust system shall terminate outdoors unless an alternate arrangement is allowed by the Contract Officer. All filters used shall be new at the beginning of the project and shall be periodically changed as necessary and disposed of as ACM waste.

3.6.5.2 Glovebag Systems

The glovebag system shall be used to remove ACM from straight runs of piping and elbows and other connections. Glovebags shall be used without modification and shall be smoketested for leaks and any leaks sealed prior to use. Glovebags shall be installed to completely cover the circumference of pipe or other structures where the work is to be done. Glovebags shall be used only once and shall not be moved. Glovebags shall not be used on surfaces that have temperatures exceeding 150 degrees F. Prior to disposal, glovebags shall be collapsed by removing air within them using a HEPA vacuum. Before beginning the operation, loose and friable material adjacent to the glovebag operation shall be wrapped and sealed in 2 layers of plastic or otherwise rendered intact. At least 2 persons shall perform Class I glovebag removal. Asbestos regulated work areas shall be established as specified and shown on detailed drawings and plans for glovebag abatement. Designated boundary limits for the asbestos work shall be established with rope or other continuous barriers and all other requirements for asbestos control areas shall be maintained, including area signage and boundary warning tape.

- a. In addition to requirements for negative pressure glovebag systems above, the Contractor shall attach HEPA vacuum systems or other devices to the bag to prevent collapse during removal of ACM from straight runs of piping and elbows and other connections.
- b. The negative pressure glove boxes used to remove ACM from pipe runs shall be fitted with gloved apertures and a bagging outlet and constructed with rigid sides from metal or other material which can withstand the weight of the ACM and water used during removal. A negative pressure shall be created in the system using a HEPA filtration system. The box shall be smoke tested for leaks prior to each use.

3.6.5.3 Mini-Enclosures

Mini-containment (small walk-in enclosure) shall accommodate no more than 2 persons and may be used if the disturbance or removal can be completely contained by the enclosure with the following specifications and work practices. The mini-enclosure shall be inspected for leaks and smoke tested before each use. Air movement shall be directed away from the employee's breathing zone within the mini-enclosure.

3.6.5.4 Wrap and Cut Operation

Prior to cutting pipe, the asbestos-containing insulation shall be wrapped with polyethylene and securely sealed with duct tape to prevent asbestos becoming airborne as a result of the cutting process. The following steps shall be taken: install glovebag, strip back sections to be cut 6 inches from point of cut, and cut pipe into manageable sections.

3.6.5.5 Roofing Material

3.6.6 Methods for Roofing Sealant

The Contractor shall use the following engineering controls and work practices when removing roof sealant which contains asbestos fibers encapsulated or coated by bituminous or resinous compounds. Before work begins, and as needed during the job, the Designated Competent Person shall conduct an inspection and determine that the roofing sealant is intact

and will likely remain intact. The material shall not be sanded, abraded, or ground. Manual methods which would render the material non-intact shall not be used. Roofing sealant shall not be dropped or thrown to the ground but shall be lowered to the ground by a method approved by the Contracting Officer. All such material shall be removed from the roof as soon as practicable, but not later than the end of the work shift.

3.6.7 Cleaning After Asbestos Removal

After completion of all asbestos removal work, surfaces from which ACM has been removed shall be wet wiped or sponged clean, or cleaned by some equivalent method to remove all visible residue. Run-off water shall be collected and filtered through a dual filtration system. A first filter shall be provided to remove fibers 20 micrometers and larger, and a final filter provided that removes fibers 5 micrometers and larger. After the gross amounts of asbestos have been removed from every surface, remaining visible accumulations of asbestos on floors shall be collected using plastic shovels, rubber squeegees, rubber dustpans, and HEPA vacuum cleaners as appropriate to maintain the integrity of the regulated area. When TSI and surfacing material has been removed, workmen shall use HEPA vacuum cleaners to vacuum every surface. Surfaces or locations which could harbor accumulations or residual asbestos dust shall be checked after vacuuming to verify that no asbestos-containing material remains; and shall be re-vacuumed as necessary to remove the ACM.

3.7 FINAL CLEANING AND VISUAL INSPECTION

Upon completion of abatement, the regulated area shall be cleaned by collecting, packing, and storing all gross contamination. A final cleaning shall be performed using HEPA vacuum and wet cleaning of all exposed surfaces and objects in the regulated area. Upon completion of the cleaning, the Contractor shall conduct a visual pre-inspection of the cleaned area in preparation for a final inspection before final air clearance monitoring and recleaning, as necessary. Upon completion of the final cleaning, the Contractor and the Contracting Officer shall conduct a final visual inspection of the cleaned regulated area in accordance with ASTM E 1368 and document the results on the Final Cleaning and Visual Inspection. If the Contracting Officer rejects the clean regulated area as not meeting final cleaning requirements, the Contractor shall reclean as necessary and have a follow-on inspection conducted with the Contracting Officer. Recleaning and follow-up reinspection shall be at the Contractor's expense.

3.8 LOCKDOWN

Prior to removal of plastic barriers and after clean-up of gross contamination and final visual inspection, a post removal (lockdown) encapsulant shall be spray applied to ceiling, walls, floors, and other surfaces in the regulated area.

3.9 EXPOSURE ASSESSMENT AND AIR MONITORING

3.9.1 General Requirements For Exposure

Exposure assessment, air monitoring and analysis of airborne concentration of asbestos fibers shall be performed in accordance with 29 CFR 1926, Section .1101, the Contractor's air monitoring plan, and as specified. Personal exposure air monitoring (collected at the breathing zone) that is representative of the exposure of each employee who is assigned to work within a regulated area shall be performed by the Contractor's Designated IH. Breathing

zone samples shall be taken for at least 25 percent of the workers in each shift, or a minimum of 2, whichever is greater. Air monitoring results at the 95 percent confidence level shall be calculated as shown in Table 1 at the end of this section. The Contractor shall provide an onsite independent testing laboratory with qualified analysts and appropriate equipment to conduct sample analyses of air samples using the methods prescribed in 29 CFR 1926. Section .1101, to include NIOSH Pub No. 84-100 Method 7400. Preabatement and abatement environmental air monitoring shall be performed by the Contractor's Designated IH. Final clearance environmental air monitoring, shall be performed by the Contracting Officer's IH. Environmental and final clearance air monitoring shall be performed using NIOSH Pub No. 84-100 Method 7400 (PCM) with optional confirmation of results by NIOSH Pub No. 84-100 Method 7402 (TEM) the EPA TEM Method specified in 40 CFR 763. For environmental and final clearance, air monitoring shall be conducted at a sufficient velocity and duration to establish the limit of detection of the method used at 0.005 f/cc. Confirmation of asbestos fiber concentrations (asbestos f/cc) from environmental and final clearance samples collected and analyzed by NIOSH Pub No. 84-100 Method 7400 (total f/cc) may be conducted using TEM in accordance with NIOSH Pub No. 84-100 Method 7402. When such confirmation is conducted, it shall be from the same sample filter used for the NIOSH Pub No. 84-100 Method 7400 PCM analysis. For all Contractor required environmental or final clearance air monitoring, confirmation of asbestos fiber concentrations, using NIOSH Pub No. 84-100 Method 7402, shall be at the Contractor's expense. Monitoring may be duplicated by the Government at the discretion of the Contracting Officer. Results of breathing zone samples shall be posted at the job site and made available to the Contracting Officer. The Contractor shall maintain a fiber concentration inside a regulated area less than or equal to 0.1 f/cc expressed as an 8 hour, time-weighted average (TWA) during the conduct of the asbestos abatement. If fiber concentration rises above 0.1 f/cc, work procedures shall be investigated with the Contracting Officer to determine the cause. At the discretion of the Contracting Officer, fiber concentration may exceed 0.1 f/cc but shall not exceed 1.0 f/cc expressed as an 8-hour TWA. The Contractor's workers shall not be exposed to an airborne fiber concentration in excess of 1.0 f/cc. as averaged over a sampling period of 30 minutes. Should either an environmental concentration of 1.0 f/cc expressed as an 8-hour TWA or a personal excursion concentration of 1.0 f/cc expressed as a 30-minute sample occur inside a regulated work area, the Contractor shall stop work immediately, notify the Contracting Officer, and implement additional engineering controls and work practice controls to reduce airborne fiber levels below prescribed limits in the work area. Work shall not restart until authorized by the Contracting Officer.

3.9.2 Initial Exposure Assessment

The Contractor's Designated IH shall conduct an exposure assessment immediately before or at the initiation of an asbestos abatement operation to ascertain expected exposures during that operation. The assessment shall be completed in time to comply with the requirements which are triggered by exposure data or the lack of a negative exposure assessment, and to provide information necessary to assure that all control systems planned are appropriate for that operation. The assessment shall take into consideration both the monitoring results and all observations, information or calculations which indicate employee exposure to asbestos, including any previous monitoring conducted in the workplace, or of the operations of the Contractor which indicate the levels of airborne asbestos likely to be encountered on the job. For Class I asbestos work, until the employer conducts exposure monitoring and documents that employees on that job will not be exposed in excess of PELs, or otherwise makes a negative exposure assessment, the Contractor shall presume that employees are exposed in excess of the PEL-TWA and PEL-Excursion Limit.

3.9.3 Negative Exposure Assessment

The Contractor shall provide a negative exposure assessment for the specific asbestos job which will be performed. The negative exposure assessment shall be provided within 4 days of the initiation of the project and conform to the following criteria:

- a. Objective Data: Objective data demonstrating that the product or material containing asbestos minerals or the activity involving such product or material cannot release airborne fibers in concentrations exceeding the PEL-TWA and PEL-Excursion Limit under those work conditions having the greatest potential for releasing asbestos.
- b. Prior Asbestos Jobs: Where the Contractor has monitored prior asbestos jobs for the PEL and the PEL-Excursion Limit within 12 months of the current job, the monitoring and analysis were performed in compliance with asbestos standard in effect; the data were obtained during work operations conducted under workplace conditions closely resembling the processes, type of material, control methods, work practices, and environmental conditions used and prevailing in the Contractor's current operations; the operations were conducted by employees whose training and experience are no more extensive than that of employees performing the current job; and these data show that under the conditions prevailing and which will prevail in the current workplace, there is a high degree of certainty that the monitoring covered exposure from employee exposures will not exceed the PEL-TWA and PEL-Excursion Limit.
- c. Initial Exposure Monitoring: The results of initial exposure monitoring of the current job, made from breathing zone air samples that are representative of the 8-hour PEL-TWA and 30-minute short-term exposures of each employee. The monitoring covered exposure from operations which are most likely during the performance of the entire asbestos job to result in exposures over the PELs.

3.9.4 Preabatement Environmental Air Monitoring

Preabatement environmental air monitoring shall be established at least 1 day prior to the masking and sealing operations for each regulated area to determine background concentrations before abatement work begins. As a minimum, preabatement air samples shall be collected using NIOSH Pub No. 84-100 Method 7400, PCM at these locations: outside the building; inside the building, but outside the regulated area perimeter; and inside each regulated work area. One sample shall be collected for every 2000 square feet of floor space. At least 2 samples shall be collected outside the building: at the exhaust of the HEPA unit; and downwind from the abatement site. The PCM samples shall be analyzed within 24 hours; and if any result in fiber concentration greater than 0.01 f/cc, asbestos fiber concentration shall be confirmed using NIOSH Pub No. 84-100 Method 7402 (TEM).

3.9.5 Environmental Air Monitoring During Abatement

Until an exposure assessment is provided to the Contracting Officer, environmental air monitoring shall be conducted at locations and frequencies that will accurately characterize any evolving airborne asbestos fiber concentrations. The assessment shall demonstrate that the product or material containing asbestos minerals, or the abatement involving such product or material, cannot release airborne asbestos fibers in concentrations exceeding 0.01 f/cc as

a TWA under those work conditions having the greatest potential for releasing asbestos. The monitoring shall be at least once per shift at locations including, but not limited to, close to the work inside a regulated area; preabatement sampling locations; outside entrances to a regulated area; close to glovebag operations; representative locations outside of the perimeter of a regulated area; inside clean room; and at the exhaust discharge point of local exhaust system ducted to the outside of a containment (if used). If the sampling outside regulated area shows airborne fiber levels have exceeded background or 0.01 f/cc, whichever is greater, work shall be stopped immediately, and the Contracting Officer notified. The condition causing the increase shall be corrected. Work shall not restart until authorized by the Contracting Officer.

3.9.6 Final Clearance Air Monitoring

Prior to conducting final clearance air monitoring, the Contractor and the Contracting Officer shall conduct a final visual inspection of the regulated area where asbestos abatement has been completed. The final visual inspection shall be as specified. Final clearance air monitoring shall not begin until acceptance of the Contractor's final cleaning by the Contracting Officer. The Contracting Officer's IH will conduct final clearance air monitoring using aggressive air sampling techniques as defined in EPA 560/5-85-024 or as otherwise required by federal or state requirements. The sampling and analytical method used will be NIOSH Pub No. 84-100 Method 7400 (PCM) with confirmation of results by NIOSH Pub No. 84-100 Method 7402 (TEM) the EPA TEM Method specified at 40 CFR 763 and Table 3.

3.9.6.1 Final Clearance Requirements, NIOSH PCM Method

For PCM sampling and analysis using NIOSH Pub No. 84-100 Method 7400, the fiber concentration inside the abated regulated area, for each airborne sample, shall be less than 0.01 f/cc. The abatement inside the regulated area is considered complete when every PCM final clearance sample is below the clearance limit. If any sample result is greater than 0.01 total f/cc, the asbestos fiber concentration (asbestos f/cc) shall be confirmed from that same filter using NIOSH Pub No. 84-100 Method 7402 (TEM) at Contractor's expense. If any confirmation sample result is greater than 0.01 asbestos f/cc, abatement is incomplete and cleaning shall be repeated. Upon completion of any required recleaning, resampling with results to meet the above clearance criteria shall be done.

3.9.6.2 Final Clearance Requirements, EPA TEM Method

For EPA TEM sampling and analysis, using the EPA Method specified in 40 CFR 763, abatement inside the regulated area is considered complete when the arithmetic mean asbestos concentration of the 5 inside samples is less than or equal to 70 structures per square millimeter (70 S/mm). When the arithmetic mean is greater than 70 S/mm, the 3 blank samples shall be analyzed. If the 3 blank samples are greater than 70 S/mm, resampling shall be done. If less than 70 S/mm, the 5 outside samples shall be analyzed and a Z-test analysis performed. When the Z-test results are less than 1.65, the decontamination shall be considered complete. If the Z-test results are more than 1.65, the abatement is incomplete and cleaning shall be repeated. Upon completion of any required recleaning, resampling with results to meet the above clearance criteria shall be done.

3.9.6.3 Air Clearance Failure

If clearance sampling results fail to meet the final clearance requirements, the Contractor shall pay all costs associated with the required recleaning, resampling, and analysis, until final clearance requirements are met.

3.9.7 Air-Monitoring Results and Documentation

Air sample fiber counting shall be completed and results provided within 24 hours (breathing zone samples), and 24 hours (environmental/clearance monitoring) after completion of a sampling period. The Contracting Officer shall be notified immediately of any airborne levels of asbestos fibers in excess of established requirements. Written sampling results shall be provided within 5 working days of the date of collection. The written results shall be signed by testing laboratory analyst, testing laboratory principal and the Contracting Officer's IH. The air sampling results shall be documented on a Contractor's daily air monitoring log. The daily air monitoring log shall contain the following information for each sample:

- a. Sampling and analytical method used;
- b. Date sample collected;
- c. Sample number;
- d. Sample type: BZ = Breathing Zone (Personal), P = Preabatement, E = Environmental, C = Abatement Clearance;
- e. Location/activity/name where sample collected;
- f. Sampling pump manufacturer, model and serial number, beginning flow rate, end flow rate, average flow rate (L/min);
- g. Calibration date, time, method, location, name of calibrator, signature;
- h. Sample period (start time, stop time, elapsed time (minutes);
- i. Total air volume sampled (liters);
- j. Sample results (f/cc and S/mm square) if EPA methods are required for final clearance;
- k. Laboratory name, location, analytical method, analyst, confidence level. In addition, the printed name and a signature and date block for the Industrial Hygienist who conducted the sampling and for the Industrial Hygienist who reviewed the daily air monitoring log verifying the accuracy of the information.

3.10 CLEARANCE CERTIFICATION

When asbestos abatement is complete, ACM waste is removed from the regulated areas, and final clean-up is completed, the Contracting Officer will certify the areas as safe before allowing the warning signs and boundary warning tape to be removed. After final clean-up and acceptable airborne concentrations are attained, but before the HEPA unit is turned off

and the containment removed, the [Contractor shall] [Government will] remove all pre-filters on the building HVAC system and provide new pre-filters. The Contractor shall dispose of such filters as asbestos contaminated materials. HVAC, mechanical, and electrical systems shall be re-established in proper working order. The Contractor and the Contracting Officer shall visually inspect all surfaces within the containment for residual material or accumulated debris. The Contractor shall reclean all areas showing dust or residual materials. The Contracting Officer will certify in writing that the area is safe before unrestricted entry is permitted. The Government will have the option to perform monitoring to certify the areas are safe before entry is permitted.

3.11 CLEANUP AND DISPOSAL

3.11.1 Title to ACM Materials

ACM material resulting from abatement work, except as specified otherwise, shall become the property of the Contractor and shall be disposed of as specified and in accordance with applicable federal, state and local regulations.

3.11.2 Collection and Disposal of Asbestos

All ACM waste including contaminated wastewater filters, scrap, debris, bags, containers, equipment, and asbestos contaminated clothing, shall be collected and placed in leak-tight containers such as double plastic bags; sealed double wrapped polyethylene sheet; sealed fiberboard boxes; or other approved containers. Waste within the containers shall be wetted in case the container is breached. Asbestos-containing waste shall be disposed of at an EPA, state and local approved asbestos landfill off Government property. For temporary storage, sealed impermeable containers shall be stored in an asbestos waste load-out unit or in a storage/transportation conveyance (i.e., dumpster, roll-off waste boxes, etc.) in a manner acceptable to and in an area assigned by the Contracting Officer. Procedure for hauling and disposal shall comply with 40 CFR 61, Subpart M, state, regional, and local standards.

3.11.3 Scale Weight Measurement

Scales used for measurement shall be public scales. Weighing shall be at a point nearest the work at which a public scale is available. Scales shall be standard truck scales of the beam type; scales shall be equipped with the type registering beam and an "over and under" indicator; and shall be capable of accommodating the entire vehicle. Scales shall be tested, approved and sealed by an inspector of the State of Washington. Scales shall be calibrated and resealed as often as necessary and at least once every three months to ensure continuous accuracy. Vehicles used for hauling ACM shall be weighed empty daily at such time as directed and each vehicle shall bear a plainly legible identification mark.

3.11.4 Weigh Bill and Delivery Tickets

Copies of weigh bills and delivery tickets shall be submitted to the Contracting Officer during the progress of the work. The Contractor shall furnish the Contracting Officer scale tickets for each load of ACM weighed and certified. These tickets shall include tare weight; identification mark for each vehicle weighed; and date, time and location of loading and unloading. Tickets shall be furnished at the point and time individual trucks arrive at the worksite. A master log of all vehicle loading shall be furnished for each day of loading operations. Before the final statement is allowed, the Contractor shall file with the Contracting Officer certified weigh bills

and/or certified tickets and manifests of all ACM actually disposed by the Contractor for this contract.

3.11.5 Asbestos Waste Shipment Record

The Contractor shall complete and provide the Contracting Officer final completed copies of the Waste Shipment Record for all shipments of waste material as specified in 40 CFR 61, Subpart M and other required state waste manifest shipment records, within 3 days of delivery to the landfill. Each Waste Shipment Record shall be signed and dated by the Contractor, the waste transporter and disposal facility operator.

TABLE 1

FORMULA FOR CALCULATION OF THE 95 PERCENT CONFIDENCE LEVEL (Reference: NIOSH 7400)

Fibers/cc(01.95 percent CL) = X + [(X) * (1.645) * (CV)]

Where: X = ((E)(AC))/((V)(1000))

E = ((F/Nf) - (B/Nb))/Af

CV = The precision value; 0.45 shall be used unless the analytical laboratory provides the Contracting Officer with documentation (Round Robin Program participation and results) that the laboratory's precision is better.

 $\mbox{\sc AC}$ = Effective collection area of the filter in square millimeters

V = Air volume sampled in liters

E = Fiber density on the filter in fibers per square millimeter

F/Nf = Total fiber count per graticule field

B/Nb = Mean field blank count per graticule field

Af = Graticule field area in square millimeters

TWA = C1/T1 + C2/T2 = Cn/Tn

Where: C = Concentration of contaminant

T = Time sampled.

TABLE 2

NIOSH METHOD 7400

PCM ENVIRONMENTAL AIR SAMPLING PROTOCOL (NON-PERSONAL)

| Sample Location | Minimum No. of Samples | 111001 1010 | Min. Vol. (Note 2) (Liters) | Sampling Rate (liters/min.) |
|---|---|--------------|-----------------------------------|-----------------------------------|
| Inside Abatement Area | 0.5/140 Square Meters (Notes 3 & 4) | 0.45 microns | 1500 | 2-10 |
| Each Room in 1 Abatement Area Less than 140 Square meters | | 0.45 microns | 1500 | 2-10 |
| Field Blank | 2 | 0.45 microns | 0 | 0 |
| Laboratory Blank | 1 | 0.45 microns | 0 | 0 |

Notes:

- 1. Type of filter is Mixed Cellulose Ester.
- 2. Ensure detection limit for PCM analysis is established at 0.005 fibers/cc.
- 3. One sample shall be added for each additional 140 square meters. (The corresponding I-P units are 5/1500 square feet).
- 4. A minimum of 5 samples are to be taken per abatement area, plus 2 field blanks.

TABLE 3

EPA AHERA METHOD: TEM AIR SAMPLING PROTOCOL

| Location Sampled | Minimum No. of Samples | Filter Pore Size | Min. Vol. (Liters) | Sampling Rate (liters/min.) |
|------------------------------|------------------------------|---------------------|--------------------------|-----------------------------------|
| Inside Abatement Area | 5 | 0.45 microns | 1199 | 2-10 |
| Outside Abatement Area | 5 | 0.45 microns | 1199 | 2-10 |
| Field Blank | 2 | 0.45 microns | 0 | 0 |
| Laboratory Blank | 1 | 0.45 microns | 0 | 0 |

Notes:

- 1. Type of filter is Mixed Cellulose Ester.
- 2. The detection limit for TEM analysis is 70 structures/square mm.

CERTIFICATE OF WORKER'S ACKNOWLEDGMENT

| PROJECT NAME CONTRACT NO | |
|---|------------|
| PROJECT ADDRESS | |
| CONTRACTOR FIRM NAME | |
| EMPLOYEE'S NAME,,, | |
| (Print) (Last) (First) (MI) | |
| Social Security Number:, | |
| WORKING WITH ASBESTOS CAN BE DANGEROUS. INHALING ASBESTOS FIBERS HEEN LINKED WITH TYPES OF LUNG DISEASE AND CANCER. IF YOU SMOKE AND INHALE ASBESTOS FIBERS, THE CHANCE THAT YOU WILL DEVELOP LUNG CANCE IS GREATER THAN THAT OF THE NONSMOKING PUBLIC. | |
| Your employer's contract for the above project requires that you be provided and you completed formal asbestos training specific to the type of work you will perform and project specific training; that you be supplied with proper personal protective equipment including a respirator that you be trained in its use; and that you receive a medical examination to evaluate your physical capacity to perform your assigned work tasks, under the environmental conditions expected, while wearing the required personal protective equipment. These things are to be done at no cost to you. By signing this certification, you are acknowledging that your employ has met these obligations to you. The Contractor's Designated Industrial Hygienist will check the block(s) for the type of formal training you have completed. Review the checked blocks prior to signing this certification. | or, ver |
| FORMAL TRAINING: a. For Competent Persons and Supervisors: I have completed EPA's Model Accreditation Program (MAP) training course, "Contractor/Supervisor", that meets this State's requirements. | s |
| b. For Workers: | f 29 |
| (4) For OSHA Class III work: I have completed at least a 16-hour course consister with EPA requirements for training of local education agency maintenance and custodial staff | |

| 40 CFR 763, Section .92(a)(2) and the elements of addition to the specific work practices and enginee and hands-on training. | |
|--|---|
| <u> </u> | S, Section .1101(k)(9)(viii), in addition to the |
| c. Workers, Supervisors and the Designate annual refresher training as required by EPA's MAI | |
| PROJECT SPECIFIC TRAINING: I have been provided and have completed to Contract. My employer's Designated Industrial Hygonducted the training. | |
| RESPIRATORY PROTECTION: I have been trained in accordance with the Protection program. I have been trained in the dar and in the proper work procedures and use and limbeen trained in and will abide by the facial hair and | ngers of handling and breathing asbestos dust nitations of the respirator(s) I will wear. I have |
| RESPIRATOR FIT-TEST TRAINING: I have been trained in the proper selection, storage of the respirator(s) that I will wear. I have in the Contractor's Respiratory Program and have assigned my individual respirator. I have been taunegative pressure fit-check upon donning negative | been fit-tested in accordance with the criteria received a satisfactory fit. I have been ght how to properly perform positive and |
| MEDICAL EXAMINATION: I have had a medical examination within the my employer. The examination included: health h have included an evaluation of a chest x-ray. A ph physical capacity to perform work tasks on the proj equipment including a respirator. I was personally of that examination. My employer's Industrial Hygi provided by the physician and checked the approp that there: | istory, pulmonary function tests, and may ysician made a determination regarding my ect while wearing personal protective provided a copy and informed of the results enist evaluated the medical certification |
| were no limitations to performing the requirement were identified physical limitations to perform | ed work tasks. ming the required work tasks. |
| Date of the medical examination | |
| Employee Signature | date |
| Contractor's Industrial | date |
| Hygienist Signature | นิเธ |

END OF SECTION

Asbestos and Lead-Based Paint Survey

Golf Course Clubhouse and Cart Storage Buildings Buildings 888 and 891 McChord AFB, Washington

Prepared for:

Mr. Lee Davenport The Tsang Partnership, Inc. 950 Pacific Avenue, Suite 1100 Tacoma, Washington 98402

Prepared by:

MED-TOX NORTHWEST 19032 66th Avenue South, Suite C 105 Kent, Washington 98032

Project No. A-3727.1

November 11, 1998





THE TSANG PARTNERSHIP, INC./Asbestos and Lead-Based Paint Survey Med-Tox Northwest Project No. A-3727.1 November 11, 1998 Page iii

CONTENTS

| | | | Pag | ge |
|--|----------------------------------|---|---------|-------------|
| ACR | ONYM | is | | ίν |
| 1.0 | | VEY SUMMARY Background Information and Scope of Work Asbestos Summary Lead Summary Light Fixture Summary | | 1 1 1 |
| 2.0 | SUM 2.1 2.2 2.3 | MARY OF ANALYSIS Asbestos-Containing Materials Lead-Containing Materials by XRF Lead-Containing Materials by Bulk Paint Chips | • • • • | 4 |
| 3.0 | 3.1 3.2 3.3 3.4 | OMMENDATIONS Asbestos-Containing Materials Lead PCB Light Ballasts Mercury Tubes | | 5 |
| 4.0 | LIMI | TATIONS | 6 | 5 |
| | | TABLES | | |
| Table Table | | Summary of Paint Chip Results Summary of Light Fixtures | | |
| | | APPENDICES | | |
| Appen Appen Appen Appen Appen Appen | dix D dix E dix F dix G | Lead-Based Paint Inspector and Radiation Safety Training Certificates Summary of Materials Sampled for Asbestos National Voluntary Laboratory Accreditation Program Certificate Laboratory Analytical Report - Asbestos Bulk Sample Location Plan Tutorial and XRF ARM Report | | |
| Appen | dix H | Laboratory Analytical Report - Lead | | |



THE TSANG PARTNERSHIP, INC./Asbestos and Lead-Based Paint Survey Med-Tox Northwest Project No. A-3727.1 November 11, 1998

Page iv

ACRONYMS

AAS atomic absorption spectroscopy ACM asbestos-containing material

AHERA Asbestos Hazard Emergency Response Act

ARM Advanced Report Manager
CFR Code of Federal Regulations

EPA U.S. Environmental Protection Agency

HUD U.S. Department of Housing and Urban Development

LBP lead-based paint
MAP metals analysis probe

mg/cm² milligrams per centimeter squared

NVLAP National Voluntary Laboratory Accreditation Program

OSHA Occupational Safety and Health Administration

PCB polychlorinated biphenyl

PSAPCA Puget Sound Air Pollution Control Agency

PLM polarized light microscopy

TCLP toxicity characteristic leaching procedure

WAC Washington Administrative Code

XRF x-ray fluorescence



THE TSANG PARTNERSHIP, INC./Asbestos and Lead-Based Paint Survey Med-Tox Northwest Project No. A-3727.1 November 11, 1998
Page 1

1.0 SURVEY SUMMARY

On November 4 and 5, 1998, Med-Tox Northwest conducted a site inspection of Golf Course Clubhouse (Building 888) and Cart Storage Building (891) located at McChord AFB, Tacoma, Washington. A copy of the Asbestos Hazard Emergency Response Act (AHERA) building inspector certificate is in Appendix A. Copies of lead-based paint inspector and radiation safety training certificates are in Appendix B.

This survey consisted of a visual inspection, touching of suspect materials, and sample collection with analysis. Destructive sampling was not performed during this survey due to presence of building occupants and patrons. For polychlorinated biphenyls (PCBs), we quantified the estimated number of light ballasts present. We also estimated the number of light tubes present in the building.

1.1 Background Information and Scope of Work

Med-Tox Northwest was contracted by The Tsang Partnership to conduct a survey for hazardous materials, including asbestos-containing materials (ACM), lead-based paint (LBP), and polychlorinated biphenyls (PCBs). Our scope of work did not include the collection of toxicity characteristic leaching procedure (TCLP) samples. TCLP samples are typically collected to characterize the waste streams.

The Golf Course Clubhouse Facility (Building 888) was constructed in 1973. There were renovation activities in 1994 which included extending the snack bar as well as covering the exterior with external insulation and a stucco textured material. The building occupies 6,929 square feet. There is an oil-fired hot water boiler located in the mechanical room. There are also electric unit heaters in the locker rooms (men's and women's). There is a pitched metal roofing system in place.

The Cart Storage Facility (Building 891) was constructed in 1972. Its flooring is concrete slab on grade. The structure is wood framed construction which is covered by metal siding. The building is approximately 2,000 square feet. There was no evidence of plumbing or heating systems in place.

1.2 Asbestos Summary

There was no ACM identified in the Cart Storage Facility. Based on our laboratory results, the following materials were identified as asbestos-containing in the Clubhouse:

Hard Fittings on Fiberglass Pipe Runs - This thermal system insulation material is located in the mechanical room. The material is friable and in fair condition. This material was observed above the ceiling. The pipe insulation is also observed behind



THE TSANG PARTNERSHIP, INC./Asbestos and Lead-Based Paint Survey Med-Tox Northwest Project No. A-3727.1 November 11, 1998 Page 2

walls. The pipe insulation behind the walls is not accessible and therefore is assumed to contain asbestos in both the pipe insulation as well as the fittings. We estimate that there are 100 hard fittings throughout the building and that there are approximately 200 linear feet of asbestos-containing pipe insulation concealed within walls.

Boiler Insulation - This thermal system insulation is located on the hot water boiler in the mechanical room. The material is friable and in good condition. There is approximately 65 square feet of boiler insulation present.

Breeching Insulation - This thermal system insulation is located above the oil furnace in the mechanical room. The material is friable and in fair condition. There is approximately 40 square feet of material present.

Roof Tar Patching - This material is located at various seams on the metal roofing. The material is nonfriable and in good condition. We estimate that there is approximately 75 square feet of material present, however the material is spread over the entire roof surface.

The survey did not include bulk sampling of electrical wiring, as most wiring is inaccessible (behind walls) and there exists a potential for electrical shock during sampling. If suspect asbestos-containing wiring is noted during renovation, the material should be sampled or assumed to be an ACM. Appropriate controls should be implemented, as necessary to control exposures.

Several homogeneous materials from the buildings tested negative for the presence of asbestos. Suspect materials observed in the areas but which tested negative are listed in Appendix C, Table C-1. All contractors should review this table prior to renovation or demolition activities.

1.3 Lead Summary

Lead-based paint is defined by the United States Department of Housing and Urban Development (HUD) and U.S. Environmental Protection Agency (EPA) as lead in paint greater than 1.0 milligram per square centimeter (mg/cm²) or 0.5 percent by weight. The Occupational Safety and Health Administration (OSHA) defines occupational lead as lead in any measurable quantity.

Med-Tox Northwest conducted an X-ray Fluorescence (XRF) survey of painted components in each of the two buildings. We also collected bulk paint chip samples for analytical testing. Lead testing results indicate that all painted surfaces in the buildings should be assumed to contain measurable levels of lead. Bulk paint chip sampling from the metal roofing indicated lead is not present above detectable levels. The following table summarizes results of the paint chip samples collected:



THE TSANG PARTNERSHIP, INC./Asbestos and Lead-Based Paint Survey Med-Tox Northwest Project No. A-3727.1

November 11, 1998

Page 3

Table No. 1 Summary of Paint Chip Results

| Sample No. | Building | Location | Color | Substrate | Result (%) |
|------------|------------|-----------------|-------|-----------|------------|
| 1104BM001L | Club House | roof, north end | brown | metal | < 0.0069 |
| 1104BM002L | Club House | roof, north end | brown | metal | < 0.0170 |
| 1104BM003L | Club House | kitchen, wall | white | sheetrock | 0.0160 |
| 1104BM004L | Club House | men's bathroom | beige | sheetrock | < 0.0110 |

1.4 Light Fixture Summary

Med-Tox Northwest visually evaluated the light fixtures in the buildings. Specifically, we looked at the number of light tubes per fixture and estimated the number of ballasts likely to be present. The concern relative to the light tubes is the possibility of mercury while the potential hazard associated with light ballasts is PCBs. The State of Washington Department of Ecology assumes all light ballasts to contain PCB if the "non-PCB" label is not present. The basis Med-Tox Northwest used for estimating the number of ballasts per light fixture is as follows:

4-Tube, 4-Foot Fixture
3-Tube, 4-Foot Fixture
2 Ballast
2-Tube, 4-Foot Fixture
1 Ballast

The following table summarizes the results of our visual inspection and provides estimated quantities of ballasts and tubes:

Table No. 2 Summary of Light Fixtures

| Building | | 3-Tube, 4-Foot Fixture | 2-Tube, 4- Foot Fixture | No. | No. 4-Ft. Tubes |
|-----------------------|---|------------------------------|-------------------------------|-----|--------------------|
| Golf Course Clubhouse | 9 | 20 | 14 | 72 | 124 |
| Cart Storage Facility | 0 | 0 | 12 | 12 | 48 |

The estimation of light ballasts cannot be verified until the light fixtures are removed and disassembled.



THE TSANG PARTNERSHIP, INC./Asbestos and Lead-Based Paint Survey Med-Tox Northwest Project No. A-3727.1 November 11, 1998 Page 4

2.0 SUMMARY OF ANALYSIS

2.1 Asbestos-Containing Materials

Forty (40) bulk samples were analyzed by polarized light microscopy (PLM), dispersion staining EPA Method 600/R-93/116. Med-Tox Northwest is accredited through the National Voluntary Laboratory Accreditation Program (NVLAP) of the U.S. Department of Commerce. This accreditation does not constitute endorsement, but rather a finding of laboratory competence. Our NVLAP participant number is 102021 (see certification in Appendix D). Copies of the laboratory analytical report are in Appendix E. A bulk sample location plan is located in Appendix F.

2.2 Lead-Containing Materials by XRF

A total of 172 locations between the two buildings were tested using XRF to identify the concentration of lead in painted building surfaces and ceramic products. The metals analysis probe (MAP) 4 Spectrum Analyzer is a portable, in-situ measuring instrument that uses XRF to test for lead in paint or other elements.

The MAP 4 XRF utilizes an Advanced Report Manager (ARM) software program that produces a report showing all XRF assays (samples) for lead. A one-page abbreviation and tutorial summary precede the ARM report so that the reviewer can follow the report by walking the survey areas. The ARM report shows the room number, wall number, component tested, the substrate of the component, the condition of the location, and the lead results. Refer to the column showing k-shell readings for lead results in mg/cm². Locations with test-shot lead results of less than 1.0 mg/cm² are considered to have trace levels of lead. The XRF report enclosed in Appendix G summarizes the survey results. Those results with measurable (trace) lead and lead levels greater than 1.0 mg/cm² deserve special consideration concerning hazard communication, worker protection, engineering controls, and waste disposal.

2.3 Lead-Containing Materials by Bulk Paint Chips

Bulk paint chip samples were submitted to NVL Laboratories, Inc. for analysis to determine total lead content. Atomic absorption spectroscopy (AAS) analysis was performed on the samples using the EPA Method SW 846-7420 for total lead. The laboratory analytical report is provided in Appendix H.



THE TSANG PARTNERSHIP, INC./Asbestos and Lead-Based Paint Survey Med-Tox Northwest Project No. A-3727.1 November 11, 1998
Page 5

3.0 RECOMMENDATIONS

3.1 Asbestos

We recommend that all materials identified as ACM in Building 888 be removed prior to demolition activities. The Washington State Department of Labor and Industries requires ACM be removed by trained and licensed contractors using certified asbestos abatement workers and supervisors. A 10-day prior notification is also required. In addition, Puget Sound Air Pollution Control Agency (PSAPCA) also requires notification and fees prior to beginning removal.

We also recommend that all piping located behind walls be assumed to contain asbestos unless destructive investigation is performed when the building is vacant.

3.2 Lead

All materials identified as containing lead in both buildings must be handled in accordance with applicable local, state, and federal regulations. These regulations include WAC 296-155-176 (Washington State Department of Labor and Industries, Lead), 29 CFR 1926 (Occupational Safety and Health Standards). The above-stated regulations pertain specifically to employee exposure during any maintenance, renovation, demolition, decorating, or new construction project where lead is present.

The contractor is also responsible for characterization of any construction debris where lead-containing materials may be present according to WAC 173-303 (Washington State Department of Ecology, Dangerous Waste Regulations), 40 CFR 261 (EPA, Identification and Listing of Hazardous Waste).

We recommend that the contractor take precautions for lead during demolition activities. At a minimum, a plan for exposure assessments, personal protective equipment, respiratory protection, work practices, engineering controls, and waste management/disposal should be developed and approved.

3.3 Light Ballasts

We recommend sorting the PCB and non-PCB ballasts as the difference in disposal and/or recycling costs will be significant. Additionally, the PCB-containing ballasts should also be inspected for "leakers." "Leakers" are items in which PCBs have escaped from the interior onto an exterior surface. PCBs are typically a clear or yellow oil, and most PCB leaks are visible. However, when a light ballast explodes or has exploded in the past, a dark brown or black sticky material will appear on the ballast and/or the fluorescent light fexture.



THE TSANG PARTNERSHIP, INC./Ashestos and Lead-Based Paint Survey Med-Tox Northwest Project No. A-3727.1 November 11, 1998
Page 6

3.4 Mercury-Containing Light Tubes

We recommend that all light tubes be collected and either recycled or disposed of properly. The light tubes may contain mercury in which case they would require handling in accordance with the dangerous waste regulations, WAC 173-303.

Recycling of light tubes typically involves separating tubes into component materials in a continuous vacuum. The aluminum end-caps are typically re-used (metal reyclers) and the glass cullet can be used as aggregate in concrete. Finally, mercury phosphor powder can be shipped to a permitted facility capable of re-fining the mercury for re-use.

4.0 LIMITATIONS

We have made certain assumptions while preparing this report based on discussions with personnel familiar with the facilities and considering the lack of destructive sampling techniques. A good faith effort has been made to identify ACM and LBP which could be impacted by the pending demolition project.

Med-Tox Northwest did not perform destructive sampling during the survey. Construction methods and material uses vary with contractors and construction trades and suspect ACM or LBP may exist in non-typical locations that we were unable to investigate. During any demolition or renovation process care should be taken to visually ascertain that additional suspect materials are not disturbed without following the appropriate regulatory requirements.

Med-Tox Northwest performed this sampling consistent with the level of care and skill ordinarily exercised by professionals currently practicing under similar conditions in the area. No other warranty, express or implied, is made.

This report has been prepared for the exclusive use of client and its consultants for this project only. The analyses, conclusions, and recommendations presented in this report are based on conditions encountered at the time of our study and our experience and judgement. Med-Tox Northwest cannot be held responsible for the interpretation by others of the data contained in this report.

This survey is not intended for use as abatement plans and/or specifications. Med-Tox Northwest recommends that professional plans and specifications be prepared along with professional project management to minimize abatement costs.



Appendix A

Asbestos Hazard Emergency Response Act Certificate

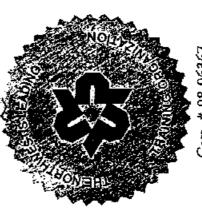
Certificate of Completion

This is to certify that

Bill Murray

has satisfactorily completed 4 hours of refresher training in Building Inspector

in compliance with TSCA Title II AHERA Accredited



Prezant Associates Seattle, WA Conducted at: Cert. # 98-06367

Mar 17, 1998

Exp. Date: Mar 17, 1999

以 Prezant



Appendix B

Lead Based Paint Inspector and Radiation Safety Training Certificates

of Outic Animeraty of

Center fur Ennironmental Management Dintston of Education and Outreach

This is to certify that

William F. Murray

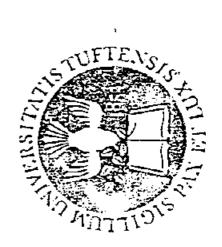
hus successfully completed conese requirements in

Lend Inspector Training

geng-ot-nor Gentlente Rinnber September 28-30, 1992 Courne Date

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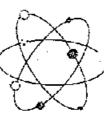
Bill Murray

has successfully completed a 8 hour course of instruction in the safe operation of Scitec's "MAP" portable XRF device. This course covered Fundamentals of Radiation, State Licensing Regulation, Principles of XRF, Safety Regulations, and Environmental Sampling Theory.

Date: September 29, 1997

Operator's Number: 7210

APPRENTICE



SAFETY TRAINING

Mak S. Martin INSTRUCTOR'S SIGNATURE



Appendix C

Summary of Materials Sampled for Asbestos

Table C-1 Summary of Materials Sampled for Asbestos

| Sample# | Sample Location | Material Classif. | Homogeneous Material Description | Lah Pecul |
|-------------|---|----------------------|-------------------------------------|-------------------|
| Clubbouse F | acility (Building 888) | | | Tab Result |
| 1104BM001 | Men's locker room, front of closet | M | 2-by 4-foot ceiling tile | ND |
| 1104BM002 | Men's locker room, entrance | М | 2-by 4-foot ceiling tile | ND |
| 1104BM003 | Men's bathroom | М | ceramic tile mastic | ND |
| 1104BM004 | Men's locker room, front of closet | М | black cove base and mastic | ND |
| 1104BM005 | Men's locker room, hall entry | M | black cove base and mastic | ND |
| 1104BM006 | Men's shower | М | gypsum wall system | ND |
| 1104BM007 | Men's bathroom, between sink and wall | М | white rubbery sealant | ND |
| 1104BM008 | Mechanical room, near doorway | TSI | hard fitting (elbow) | 25% chrysotile |
| 1104BM009 | Mechanical room, hot water tank | TSI | insulation | 25% chrysotile |
| 1104BM010 | Mechanical room, hot water tank | TSĮ | insulation | 20% chrysotile |
| 1104BM011 | Mechanical room, above oil furnace | TSI | breeching insulation | 30% chrysotile |
| 1104BM012 | Mechanical room | TSI | hard fitting | ND |
| 1104BM013 | Mechanical room, above oil furnace, valve with silver covering | TSI | insulation | ND |
| 1104BM014 | Mechanical room | М | composite sheetrock | ND |
| 1104BM015 | Mechanical room, doorway | S | beige textured material | ND |
| 104BM016 | Men's locker room | М | carpet and adhesive | ND |
| 104BM017 | Men's locker room | М | carpet and adhesive | ND |

Table C-1 Summary of Materials Sampled for Asbestos

| Sample # | Sample Location | Material Classif. | Homogeneous Material Description | Lab Result |
|-------------------|---|-------------------|-------------------------------------|------------------|
| 1104BM018 | Exterior, south entry, column | S | beige textured material | ND NO |
| 1104BM019 | Exterior, west wall, north end | S | beige textured material | ND |
| 1104BM020 | Exterior, snack bar, east entry | S | beige textured material | ND |
| 1104BM021 | Exterior, main entry, east side | S | beige textured material | ND |
| 1104BM022 | Exterior, south entry, east wall | S | beige textured | ND |
| 1104BM023 | Exterior, south entry, west wall | S | beige textured material | ND |
| 1104BM024 | Snack bar | S | white acoustic ceiling texture | ND |
| 1104BM025 | Snack bar | S | white acoustic ceiling texture | ND |
| 1104BM026 | Snack bar | S | white acoustic ceiling texture | ND |
| 1104BM027 | Exterior, top of CMU wall, metal parapet cap seam | M | brown sealant | ND |
| 1104BM028 | Exterior, top of CMU wall, metal parapet cap seam | М | brown sealant | ND |
| 1104BM029 | Roof, north end | M | tar patching | ND . |
| 1104BM030 | Roof, north end | М | tar patching | 10% |
| 1104BM031 | Roof, north end | M | tar patching | chrysotile ND |
| 1 04BM 032 | Roof, north end, under metal | М | gray felt material | ND |
| 104BM033 | Roof, north end, under metal | М | gray felt material | ND |
| 105BM034 | Kitchen, closet | М | ceramic tile adhesive | ND |



Appendix D

National Voluntary Laboratory Accreditation Program (NVLAP) Certificate

Table C-1 Summary of Materials Sampled for Asbestos

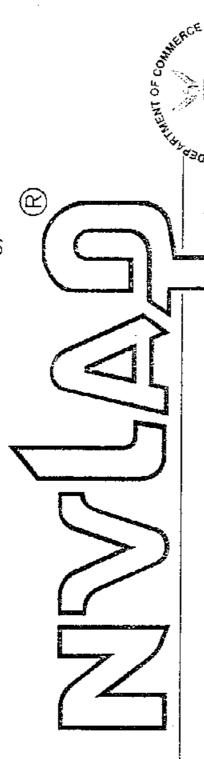
| Sample # | Sample Location | Material Classif. | Homogeneous Material Description | Lab Result |
|--------------|---|----------------------|-------------------------------------|------------|
| 1105BM035 | Kitchen, closet | М | composite sheetrock and mud | ND |
| 1105BM036 | Administration office, at existing damage | M | composite sheetrock and mud | ND |
| 1105BM037 | Men's shower room | М | gypsum wall system | ND |
| 1105BM038 | Men's bathroom | М | gypsum wall system | ND |
| Cart Storage | Facility (Building 891) | | | |
| 1105BM039 | Exterior, west side at vent | М | white sealant | ND |
| 1105BM040 | Exterior, east side at vent | М | white sealant | ND |

ND - None Detected CMU = Concrete Masonry Unit

Material Classif. = Material Classification

S = Surfacing Material M = Miscellaneous Material TSI = Thermal System Insulation

United States Department of Commerce National Institute of Standards and Technology



ISO/IEC GUIDE 25:1990 ISO 9002:1987

Certificate of Accreditation

SAFE ENVIRONMENT OF AMERICA

KENT, WA

criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements. of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

BULK ASBESTOS FIBER ANALYSIS

June 30, 1999

Effective through

Son Lake

For the National Institute of Standards and Technology

NVLAP Lab Code: 102021-0

National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program

ISO/IEC GUIDE 25:1990 ISO 9002:1987

Scope of Accreditation



Page: I of 1 NVLAP LAB CODE 102021-0

BULK ASBESTOS FIBER ANALYSIS

SAFE ENVIRONMENT OF AMERICA

dba Med-Tox Northwest 19032 66th Avenue S., #C-105 Kent, WA 98032 Mr. Scott Harper

Phone: 425-656-2920 Fax: 425-656-2924

NVLAP Code

Designation

18/A01

U.S. EPA's "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" as found in 40 CFR, Part 763, Subpart F, App. A, or the current U.S. EPA method for the analysis of asbestos in building material.

June 30, 1999

Effective tracks

Tar the Salional Institute of Standard Society of Exception



Appendix E

Laboratory Analytical Report - Asbestos



ANALYTICAL LABORATORY REPORT

The Tsang Partnership, Inc 950 Pacific Ave, Suite 1100

Tacoma, WA 98402

Batch Received: 11/05/1998 Samples Analyzed: 11/06/1998 Report Date: 11/06/1998

MED-TOX Job No: A-3727

Attention: Lee Davenport

ANALYSIS: ASBESTOS IN BULK SAMPLES

METHOD: POLARIZED LIGHT MICROSCOPY (PLM) /

DISPERSION STAINING

EPA 600/M4-82-020 AND EPA/600/R-93/116

LOCATION: Golf Course Clubhouse

CLIENT PO #:

FIBER IDENTIFICATION KEY

| ASBESTOS | NON-ASBESTOS |
|--|--|
| C = Chrysotile AM = Amosite CR = Crocidolite AN = Anthophyllite TR = Tremolite AC = Actinolite | CE = Cellulose W = Wollastonite F = Fiberglass M = Mineral Wool ND = None Detected |

| | Sample ID | Asbestos |] |
|----------|------------|----------|---|
| Lab No. | Client No. | Percent | Brief Physical Description |
| 9811046B | 1104BM001 | ND(1) | Brown fibrous matrix with white coating: 50% CE, 20% F, binder/filler, calcareous binders, glass beads. No asbestos was detected in this material. |
| 9811047B | 1104BM002 | ND(1) | Brown fibrous matrix with white coating: 50% CE, 15% F, binder/filler, calcareous binders, glass beads. No asbestos was detected in this material. |
| 9811048B | 1104BM003 | ND (1) | Tan mastic: ND, mastic/binder, binder/filler. No asbestos was detected in this material. |
| 9811049B | 1104BM004 | | Yellow mastic: ND, mastic/binder, binder/filler. No asbestos was detected in this material. |
| 9811050B | 1104BM005 | | Brown and tan mastic: 3% TA, binder/filler, mastic/binder. No asbestos was detected in this material. |



The Tsang Partnership, Inc

Attention: Lee Davenport

| | | MED-TOX JOD No: A-3727 | |
|----------|-------------------------|---|--------------|
| Lab No. | Sample ID Client No. | Asbestos Percent Brief Physical Description | |
| 9811051B | 1104BM006 | ND(1) Brown crumbly matrix with packing and paint: 5% CE, calcareous binders, binder/fil paint/binder. No asbestos was detected in the material. | ller, |
| 9811052B | 1104BM007 | ND(1) White rubbery matrix: ND, calcareous binders, resin/bind No asbestos was detected in the material. | ler. |
| 9811053B | 1104BM008 | 25% White powdery, fibrous matr 10% F, 10% CE, 25% C, binder/filler, calcareous bind Asbestos accounts for 25% of t material. | ers. |
| 9811054B | 1104BM009 | 25% White powdery, fibrous matrix with coating: 5% F, 10% CE, 25% binder/filler, calcareous b | % C, ers. |
| 9811055B | 1104BM010 | material. 20% White powdery, fibrous matriwith coating: 10% CE, 10% F, 20 C, binder/filler, calcareous binders. Asbestos accounts for 20% of the material. | 9 |
| 9811056B | 1104BM011 | 30% White powdery, fibrous matri with coating: 10% CE, 10% F, 30 C, binder/filler, calcareous binders. Asbestos accounts for 30% of the material. | 18 |



| Ish Ma | Sample ID | Asbestos | |
|----------|------------|----------|---|
| Lab No. | Client No. | Percent | Brief Physical Description |
| 9811057B | 1104BM012 | ND(1) | White crumbly matrix: 10% F, 10% CE, binder/filler, calcareous binders. No asbestos was detected in this |
| | | | material. |
| 9811058B | 1104BM013 | ND (1) | White crumbly, fibrous matrix: 15% CE, calcareous binders, binder/filler. No asbestos was detected in this material. |
| 9811059B | 1104BM014 | ND(1) | White crumbly matrix with paper backing and paint: 15% CE, calcareous binders, binder/filler, paint/binder. No asbestos was detected in this material. |
| 9811060B | 1104BM015 | ND(1) | White crumbly matrix with grains: ND, calcareous binders, cement/binder, fine grains, mineral grains, paint/binder. No asbestos was detected in this material. |
| 9811061B | 1104BM016 | ND(1) | Green fibrous matrix with mastic: 70% S, binder/filler, mastic/binder. No asbestos was detected in this material. |
| 9811062B | 1104BM017 | ND (1) | Green fibrous matrix with mastic: 70% S, binder/filler, mastic/binder. No asbestos was detected in this material. |
| 9811063B | 1104BM018 | ND(1) | White crumbly matrix: ND, binder/filler, cement/binder, fine grains, mineral grains, paint/binder. No asbestos was detected in this material. |



| - | Sample ID | Asbestos | 3 |
|----------|------------|----------|---|
| Lab No. | Client No. | Percent | Brief Physical Description |
| 9811064B | 1104BM019 | ND(1) | Tan crumbly matrix: ND, calcareous binders, cement/binder, fine grains, mineral grains, paint/binder. No asbestos was detected in this material. |
| 9811065B | 1104BM020 | ND(1) | Tan crumbly matrix: ND, binder/filler, calcareous binders, fine grains, mineral grains, paint/binder. No asbestos was detected in this material. |
| 9811066B | 1104BM021 | ND(1) | White crumbly matrix: ND, binder/filler, calcareous binders, fine grains, mineral grains, paint/binder. No asbestos was detected in this material. |
| 9811067B | 1104BM022 | , ND(1) | Tan crumbly matrix: ND, binder/filler, calcareous binders fine grains, mineral grains, paint/binder. No asbestos was detected in this material. |
| 9811068B | 1104BM023 | , ND {1} | Tan crumbly matrix: ND, binder/filler, cement/binder, fine grains, mineral grains, paint/binder. No asbestos was detected in this material. |
| 9811069B | 1104BM024 | ND (1) | White spongy matrix: ND, calcareous binders, binder/filler, synthetic foam, paint/binder. No asbestos was detected in this material. |



| | Sample ID | Asbestos | <u> </u> |
|-------------------|----------------|----------|--|
| Lab No. | Client No. | Percent | Brief Physical Description |
| 9811070B | 1104BM025 - | ND(1) | White spongy matrix: ND, calcareous binders, binder/filler, paint/binder, synthetic foam. No asbestos was detected in this material. |
| 9811071B | 1104BM026 | (1) | White spongy matrix: ND, binder/filler, calcareous binders, paint/binder, synthetic foam. No asbestos was detected in this material. |
| 9811072B | 1104BM027 | ND(1) | Brown rubbery matrix: ND, binder/filler, resin/binder. No asbestos was detected in this material. |
| 9811073в | 1104BM073 | ND(1) | Brown rubbery matrix: ND, binder/filler, resin/binder. No asbestos was detected in this material. |
| 981107 4 B | 1104BM029 | ND(1) | Black rubbery matrix: ND, binder/filler, resin/binder. No asbestos was detected in this material. |
| 9611075B | 1104BM030 | 108 | Black asphaltic matrix with brown paint: 10% C, asphalt, fine grains, paint/binder. Asbestos accounts for 10% of this material. |
| 9811076B | 1104BM031 | ND (1) | Black rubbery matrix: ND, binder/filler, fine grains, resin/binder. No asbestos was detected in this material. |
| 9811077 B | 1104BM032 | | Grey foamy matrix: ND, synthetic foam. No asbestos was detected in this material. |



| _ | Sample ID | Asbestos | |
|----------|------------|----------|--|
| Lab No. | Client No. | Percent | Brief Physical Description |
| 9811078B | 1104BM033 | ND(1) | Grey foamy matrix: ND, synthetic foam. No asbestos was detected in this material. |
| 9811079B | 1105BM034 | ND (2) | · · · · · · · · · · · · · · · · · · · |
| 9011073B | 1103BM034 | ND(1) | Tan mastic: ND, mastic/binder. No asbestos was detected in this material. |
| 9811080B | 1105ВМ035 | ND(1) | White crumbly matrix with paper backing and paint: 15% CE, calcareous binders, binder/filler, paint/binder. No asbestos was detected in this material. |
| 9811081B | 1105BM036 | ND (1) | Brown fibrous matrix with white crumbly matrix and paint: 70% CE, binder/filler, calcareous binders, paint/binder. No asbestos was detected in this material. |
| 9811082B | 1105BM037 | ND(1) | Brown powdery matrix with paper backing and paint: 30% CE, binder/filler, calcareous binders, paint/binder. No asbestos was detected in this material. |
| 9811083B | 1105BM038 | ND(1) | White crumbly matrix with paper backing and paint: 40% CE, calcareous binders, binder/filler, paint/binder. No asbestos was detected in this material. |
| 9811084B | 1105BM039 | ND(1) | White rubbery matrix: ND, binder/filler, calcareous binders. |
| | | | No asbestos was detected in this material. |



Report Date: 11/06/1998 MED-TOX Job No: A-3727

| Lab No. | Sample ID Client No. | Asbestos Percent Brief Physical Description |
|----------|-------------------------|---|
| 9811085B | 1105BM040 | ND(1) White rubbery matrix: ND, binder/filler, calcareous binders. |
| | | No asbestos was detected in this material. |

Laboratory Analyst(s):

Scott Harper

Laboratory Manager

Page 7

Certificate No. 10202

NOTES:

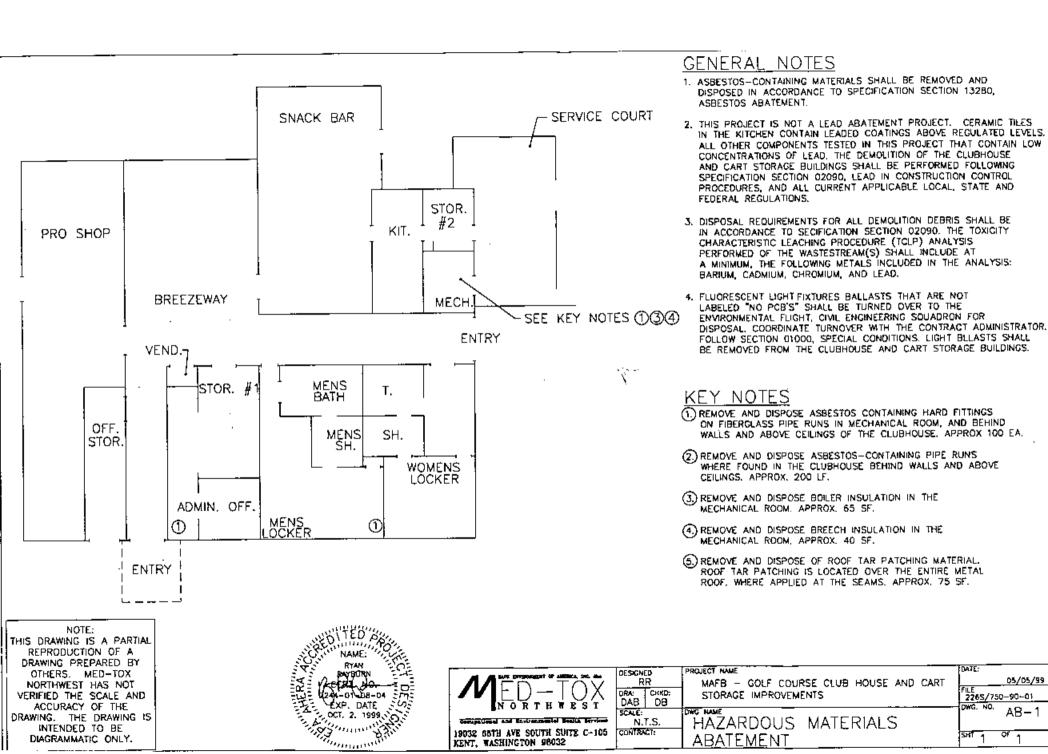


- "ND(1)" means no asbestos detected; method limit of detection is 1%.
- The EPA considers materials that contain less than 1% asbestos not to be a hazard.
- Unless otherwise stated within the report, each sample was examined at standard temperature and
 pressure in the Med-Tox Northwest laboratory for all asbestos minerals (i.e., chrysotile, amosite,
 crocidolite, anthophyllite, tremolite, and actinolite). Only those asbestos minerals detected are
 listed.
- Soils, vinyl floor tiles, and slurry-based materials (e.g., spray-on and troweled-on materials) can be inhomogeneous due to the nature of their preparation. Quality control checks are performed on 10% of the sample load to help ensure the accuracy of data.
- For samples containing >0 but <10% asbestos, point counting by the PLM method is recommended by the EPA (NESHAP, 40 CFR Part 61).
- The coefficient of variation for PLM asbestos samples typically ranges from 0.10 to 0.50.
 Variation increases as asbestos % decreases.
- Vinyl floor tile samples may contain asbestos fibers too small to be detected by PLM. Negative results, and results of < 1% asbestos, are not considered conclusive by the EPA. More sensitive analytical methods, such as TEM, are recommended for such samples.
- Samples are archived for 1 year following analysis and then properly disposed of as hazardous
 waste.
- This report verifies, with respect to asbestos content, only the samples analyzed. The laboratory is not accountable for the completeness with which a sample represents the actual material.
- This test report is not valid unless it bears the name of a NVLAP approved signatory.
- Any reproduction of this document must include the entire document in order to be valid.
- Neither the NVLAP accreditation of this laboratory nor this report can be used to claim product endorsement by NVLAP or any agency of the U.S. Government.
- Unless otherwise specified within the report, all samples analyzed were in good condition upon receipt by the laboratory.
- Thank you for using Med-Tox Northwest laboratory services. If you have any questions regarding this report, please feel free to contact us.

NV(A)

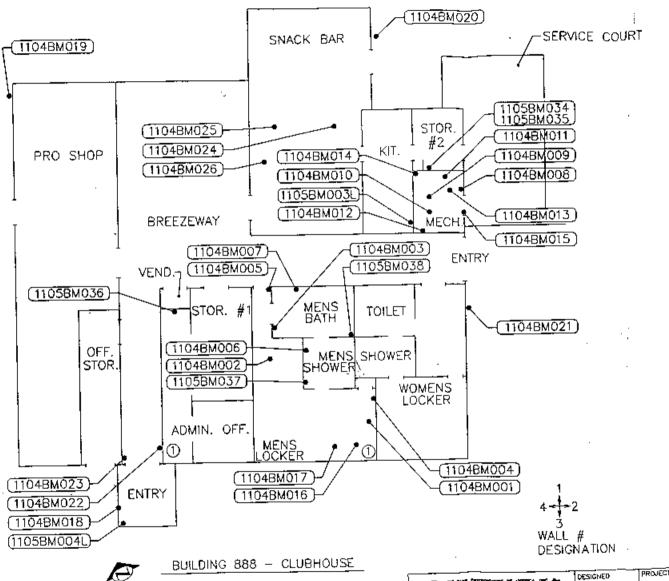


Appendix F Bulk Sample Location Plan



05/05/99

AB-1



| GEND |
|--|
| DISCRIPTION |
| BULK SAMPLE LOCATION (ASBESTOS) |
| BULK SAMPLE LOCATION (LEAD) |
| WALL DESIGNATION: TO BE USED WHEN VIEWING XRF REPORT |
| |

KEY NOTES

OLOCATION OF LABELED ASSESTOS-CONTAINING THERMAL SYSTEM INSULATION.

GENERAL NOTES

1. THERE IS SUSPECT ASBESTOS—CONTAINING PIPE INSULATION LOCATED ABOVE THE EXISTING CEILING AND BEHIND VARIOUS WALLS. THIS MATERIAL SHOULD BE TREATED AS ACM UNTIL LABORATORY ANALYSIS PROVES OTHERWISE.

ROOF SAMPLES NOT SHOWN:

(1104BM027) (1104BM031)

(1104BM028) (1104BM032)

(1104BM029) (1104BM033)

(1104<u>BM030</u>) (1104<u>BM</u>Ö01L

(1104BM002L)

CART STORAGE FACILITY SAMPLES NOT SHOWN:

(11058M039)

(1105BM040)



KENT, WASHINGTON 98032

| | | | | | _ | | | |
|---------------|---------------|-----------|---------------|------|------|------|-------|----|
| DESIGNI | | PROJECT N | AME | | | | | |
| DESIGNE BM | | FY99 | GOLF | COU | JRSE | CLU | BHOU | 5 |
| ORA: BAM | ÇHKO: DASI | CART | GOLF STORA | ۹GE, | McC' | HORE |) AFE | 3, |
| SCALE: | | DWG NAME | | | | _ | | |
| NTS | · | BULK | SAMP | LΕι | OCAI | ION | PLAN | 1 |

CONTRACT:

JBHOUSE AND FILE

D AFB, WA

PLAN

11/6/98
FILE

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SHT, OF

DATE:



Appendix G

Tutorial and XRF ARM Report

X-Ray Fluorescence Report Abbreviation Decoding

| Abbreviations | Definition and/or Location |
|--------------------|---|
| Room Tested Column | |
| Calibration | Quality control assays collected during sampling period |
| Wall Column | |
| ac | Above ceiling |
| flr | Floor |
| Component Column | |
| Horiz. wall | Horizontal wall panels in the Pro Shop e |
| CMU | Concrete masonry unit wall |
| Red Frame | Steel framing above the ceiling |
| Site Column | |
| 0001 | Clubhouse Facility (Building 888) |
| 0002 | Cart Storage Facility (Buildign 891) |
| Result Column | |
| Pos | Positive |
| Neg | Negative |
| Incl | Inconclusive |

XRF Report Reading Tutorial

| Table Column (XRF Assay Results) | Description |
|-------------------------------------|--|
| # | Sequence of XRF assays in site |
| Site | Site number |
| Room Tested | Room tested |
| Room # | Room tested number. This column is designed for residential surveys where there are several similar rooms, i.e. bedrooms, bathrooms, etc. |
| Wall | Refer to the bulk sample location plan, in Appendix Fof the survey report see wall numbers |
| Component | Component tested (e.g., front door, wall, ceiling) |
| Substrate | Substrate of the paint tested (e.g., if a wood door was tested the substrate column would read: wood) |
| Paint Condition | Condition of painted material |
| K-Sheli | Assay results in milligrams per square centimeter. This column displays the assay result which is compared to the regulatory standard. For HUD projects, anything greater than 1.0 mg/cm² would be considered lead-based paint. Any measurable concentration is considered lead-containing per OSHA. |
| L-Shell | Assay results in milligrams per square centimeter. |
| Map# | Scitec instrument reference number |
| Туре | Instruments mode of operation |
| Result | XRF assay result |

See attached pages for XRF Report results.

XRF Assay Results

Customer: The Tsang Partnership, Inc.

950 Pacific Avenue, Suite 1100

Tacoma, WA 98402

Project Name: FY 99 Golf Course Clubhouse & Cart

McChord AFB

W٨

Site Name: Golf Course Clubhouse

Building 888, McChord AFB

Action Level 1.000 mg/cm2

Lab 1.000 mg/cm2

Total Assays Reported

151

| # | Site | Room Tested | # | Wall | Component | Substrate | Paint Condition | K-Shell mg/cm2 | L-Shell mg/cm2 | Map # | Туре | Result |
|------|------|-------------|---|------|-------------------|-----------|--------------------|-------------------|-------------------|----------|------|--------|
| 5743 | 0001 | Kitchen | 1 | 4 | Ceramic wall tile | Masonry | Good | 10.652 K | 1.137 L | 0 | UNLM | Pos |
| 5744 | 0001 | Kitchen | 1 | Ωr. | Floor | Теггяхо | Good | 0.501 K | -0.233 L | 0 | UNLM | Neg |
| 5745 | 0001 | Kitchen | 1 | Ar. | Floor | Terrazo | Good | 0.446 K | -0.280 L | 0 | UNLM | Neg |
| 5746 | 0001 | Kitchen | 1 | Nr. | Floor | Terrazo | Good | 0.046 K | -0.310 L | 0 | UNLM | Neg |
| 5747 | 0001 | Kitchen | 1 | 2 | Door Jamb | Wood | Good | 0.258 K | -0.308 L | 0 | UNLM | Neg |
| 5748 | 0001 | Kitchen | 1 | 2 | Door Jamb | Wood | Good | 0.399 K | -0.211 L | 0 | UNLM | Neg |
| 5749 | 0001 | Storage | 2 | ı | Wall | Sheetrk | Good | 0.236 K | -0.034 L | 0 | UNLM | Neg |
| 5750 | 0001 | Storage | 2 | 2 | Wall | Sheetrk | Good | 0.319 K | -0.292 L | 0 | UNLM | Neg |
| 5751 | 0001 | Storage | 2 | 4 | Wall | Slicetrk | Good | 0.166 K | -0.165 L | 0 | UNLM | Neg |
| 5752 | 0001 | Storage | 2 | 3 | Sink | Masonry | Good | -0.643 K | -1.541 L | 0 | UNLM | Neg |
| 5753 | 0001 | Storage | 2 | . 3 | Sink | Masoury | Good | 0.146 K | -1.367 L | 0 | UNLM | Neg |
| 5754 | 0001 | Storage | 2 | 3 | Sink | Masonry | Good | -0.792 K | -1.429 L | 0 | UNLM | Neg |
| 5755 | 0001 | Storage | 2 | 2 | Door Molding | Metal | Good | -1.076 K | 0.058 L | 0 | UNLM | Neg |
| 5756 | 0001 | Storage | 2 | 2 | Door Molding | Metal | Good | 0.015 K | -0.001 L | 0 | UNLM | Neg |
| 5757 | 0001 | Storage | 2 | 2 | Door Jamb | Metal | Good | 0.319 K | -0.013 L | 0 | UNLM | Neg |
| 5758 | 0001 | Storage | 2 | 2 | Door Jamb | Metal | Good | 0.733 K | -0.085 L | 0 | UNLM | Neg |
| 5759 | 0001 | Storage | 2 | Πr. | Floor | Terrazo | Good | 0.223 K | -0.225 L | 0 | UNLM | Neg |
| 5760 | 0001 | Storage | 2 | Nr. | Floor | Terrazo | Good | 0.365 K | -0.192 L | 0 | UNLM | Neg |
| 5761 | 9001 | Storage | 2 | 3 | Door Molding | Wood | Good | -0.297 K | -0.284 L | 0 | UNLM | Neg |
| 5762 | 0001 | Storage | 2 | 3 | Door Molding | Wood | Good | -0.088 K | -0.385 L | 0 | UNLM | Neg |

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XRF Assay Results

Customer: The Tsang Partnership, Inc.

950 Pacific Avenue, Suite 1100

Tacoma, WA 98402

Project Name: FY 99 Golf Course Clubhouse & Cart

McChord AFB

WA

Site Name: Golf Course Clubhouse

Building 888, McChord AFB

Action Level 1.000 mg/cm2

Lab 1.000 mg /cm2

Total Assays Reported

15 E

| # | Site | Room Tested | # | Wall | Component | Substrate | Paint Condition | K-Shell mg/cm2 | L-Shell mg/cm2 | Map # | Туре | Result |
|------|------|----------------|---|------|--------------|-----------|--------------------|-------------------|-------------------|----------|------|--------|
| 5783 | 0001 | Office Storage | _ | 2 | Door | Metal | Good | 0.247 K | -0.070 L | 283 | UNLM | Neg |
| 5784 | 0001 | Office Storage | 1 | 2 | Door Jamb | Metal | Good | 0.286 K | -0.156 L | 283 | UNLM | Neg |
| 5785 | 0001 | Office Storage | 1 | 2 | Door Jamb | Metal | Good | 0.659 K | -0.057 L | 283 | UNLM | Neg |
| 5786 | 0001 | Office Storage | 1 | 2 | Wall | Plaster | Good | -0.456 K | -0.115 L | 283 | UNLM | Neg |
| 5787 | 0001 | Office Storage | 1 | 4 | Wall | Plaster | Good | 0.226 K | -0.196 L | 283 | UNLM | Neg |
| 5788 | 0001 | Office Storage | 1 | 4 | Wall | Plaster | Good | -0.033 K | -0.134 L | 283 | UNLM | Neg |
| 5789 | 0001 | Office Storage | 1 | 3 | Door | Metal | Good | 0.139 K | -0.073 L | 283 | UNLM | Neg |
| 5790 | 0001 | Office Storage | 1 | 3 | Door | Metal | Good | 0.639 K | -0.013 L | 283 | UNLM | Neg |
| 5791 | 0001 | Office Storage | 1 | 3 | Door Molding | Metal | Good | 0.188 K | 0.042 L | 283 | UNLM | Neg |
| 5792 | 0001 | Office Storage | 1 | 3 | Door Molding | Metal | Good | 0.148 K | 0.039 L | 283 | UNLM | Neg |
| 5793 | 0001 | Office Storage | 1 | 3 | Door Jamb | Metal | Good | 0.460 K | -0.109 L | 283 | UNLM | Neg |
| 5794 | 1000 | Office Storage | 1 | 3 | Door Jamb | Metal | Good | 0.429 K | -0.060 L | 283 | UNLM | Neg |
| 5795 | 0001 | Admin. Office | 1 | . 1 | Wall | Sheetrk | Good | 0.106 K | -0.330 L | 283 | UNLM | Neg |
| 5796 | 0001 | Admin. Office | 1 | 2 | Wall | Sheetrk | Gond | -0.017 K | -0.314 L | 283 | UNLM | Neg |
| 5797 | 1000 | Admin. Office | 1 | 4 | Wall | Sheetrk | Good | -0.040 K | -0.023 L | 283 | UNLM | Neg |
| 5798 | 0001 | Admin. Office | 1 | 4 | Door | Metal | Good | 0.203 K | -0.123 L | 283 | UNLM | Neg |
| 5799 | 1000 | Admin. Office | 1 | 4 | Door | Metal | Good | 0.224 K | -0.104 L | 283 | UNLM | Neg |
| 5800 | 0001 | Admin. Office | 1 | 4 | Door Molding | Wood | Good | 0.461 K | 0.007 L | 283 | UNLM | Neg |
| 5801 | 0001 | Admin. Office | 1 | 4 | Door Molding | Wood | Good | 0.464 K | -0.043 L | 283 | UNLM | Neg |
| 5802 | 0001 | Admin. Office | 1 | 4 | Door Jamb | Metal | Good | 0.426 K | -0.074 L, | 283 | UNLM | Neg |

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XRF Assay Results

Customer: The Tsang Partnership, Inc.

950 Pacific Avenue, Suite 1100

Tacoma, WA 98402

Project Name; FY 99 Golf Course Clubhouse & Cart

McChord AFB

WA

Site Name: Golf Course Clubhouse

Building 888, McChord AFB

Action Level 1.000 mg/cm2

Lab 1.000 mg/cm2

Total Assays Reported

151

| # | Site | Room Tested | # | Wall | Component | Substrate | Paint Condition | K-Shell mg/cm2 | L-Shell mg/cm2 | Map # | Туре | Result |
|------|------|----------------|-----|------|-------------------|-----------|--------------------|-------------------|-------------------|----------|------|----------|
| 5823 | 0001 | Men's Shower | ŧ | í | Door Molding | Wood | Good | 0.190 K | -0.082 L | 283 | UNLM | Neg |
| 5824 | 1000 | Men's Shower | 1 | 1 | Door Molding | Wood | Good | -0.273 K | -0.317 L | 283 | UNLM | |
| 5825 | 0001 | Men's Shower | 1 | Ī | Door Jamb | Wood | Good | 0.261 K | -0.285 L | 283 | UNLM | <u> </u> |
| 5826 | 0001 | Men's Shower | 1 | Or. | Finor | Terrazo | Good | -0.139 K | -0.481 L | 283 | UNLM | |
| 5827 | 0001 | Men's Shower | 1 | Ar. | Floor | Terrazo | Good | 0.422 K | -0.191 L | 283 | UNLM | |
| 5928 | 0001 | Men's Bathroom | | 1 | Wall | Sheetrk | Good | 0.291 K | -0.164 1, | 283 | UNLM | Neg |
| 5829 | 0001 | Men's Bathroom | 1 | 2 | Wali | Sheetrk | Good | 0.192 K | -0.227 L | 283 | UNLM | |
| 5830 | 0001 | Men's Bathroom | 1 | 3 | Wall | Sheetrk | Good | 0.197 K | -0.330 L | 283 | UNLM | Neg |
| 5831 | 0001 | Men's Bathroom | Ī | 1 | Ceramic wall tile | Masonry | Good | -0.726 K | -0.806 L | 283 | UNLM | Neg |
| 5832 | 0001 | Men's Bathroom | 1 | 2 | Ceramic wall tile | Masonry | Good | 0.123 K | -0.886 L | 283 | UNLM | Neg |
| 5833 | 9001 | Men's Bathroom | | 3 | Ceramic wall tile | Masonry | Good | -0.057 K | -0.583 L | 283 | UNLM | Neg |
| 5834 | 0001 | Men's Bathroom | 1 | 4 | Door | Wood | Good | 0.338 K | -0.337 L | 283 | UNLM | Neg |
| 5835 | 0001 | Men's Bathroom | 1 | 4 | Door Jamb | Wood | Good | 0.312 K | -0.279 L | 283 | UNLM | Neg |
| 5836 | 0001 | Men's Bathroom | 1 | 3 | Urinal | Masonry | Good | -0.001 K | -1.463 L | 283 | UNLM | Neg |
| 5837 | 0001 | Men's Bathroom | 1 | 3 | Urinal | Masonry | Good | -0.040 K | -1.740 L | 283 | UNLM | Neg |
| 5838 | 0001 | Men's Bathroom | | 2 | Toilet | Masonry | Good | 0.298 K | -1.855 L | 283 | UNLM | Neg |
| 5839 | 0001 | Men's Bathroom | 1 | 2 | Toilet | Masonry | Good | -0.379 K | -2.155 L | 283 | UNLM | Neg |
| 5840 | 0001 | Men's Bathroom | 1 | 2 | Staff dividers | Other | Good | 0.575 K | 0.073 L | 283 | UNLM | <u> </u> |
| 5841 | 0001 | Men's Bathroom | I | 2 | Stall dividers | Other | Good | 0.330 K | 0.002 L | 283 | UNLM | |
| 5842 | 0001 | Men's Bathroom | . ! | 2 | Stall dividers | Other | Good | 0.568 K | 0.074 L | 283 | UNLM | Neg |

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6 of 8 Limit Set: 0

Coding Set: 32

No Averaging Selected

XRF Assay Results

Customer: The Tsang Partnership, Inc.

950 Pacific Avenue, Suite 1100

Tacoma, WA 98402

Project Name: FY 99 Golf Course Clubhouse & Cart

McChord AFB

W٨

Site Name: Golf Course Clubhouse

Building 888, McChord AFB

Action Level 1.000 mg/cm2

Lab 1.000 mg/cm2

Total Assays Reported

151

| # | Site | Room Tested | # | Wall | Component | Substrate | Paint Condition | K-Shell mg/cm2 | L-Shelt mg/cm2 | Map # | Туре | Result |
|------|------|------------------|---|------|---------------|-----------|--------------------|-------------------|-------------------|----------|------|--------|
| 5863 | 0001 | Exterior | ı | 3 | Textured wall | Other | Good | -0.483 K | -0.079 L | 283 | UNLM | Neg |
| 5864 | 0001 | Exterior | 1 | 3 | Textured wall | Other | Good | 0.186 K | -0.283 L | 283 | UNLM | Neg |
| 5865 | 0001 | Exterior | 1 | 2 | Textured wall | Other | Good | 0.356 K | -0.171 L | 283 | UNLM | Neg |
| 5866 | 0001 | Exterior | t | 2 | Textured wall | Other | Good | -0.066 K | -0.250 L | 283 | UNLM | Neg |
| 5867 | 0001 | Exterior | i | 2 | Textured wall | Other | Good | 0.225 K | -0.150 L | 283 | UNLM | Neg |
| 5868 | 1000 | Calibration | * | * | * | + | * | 0.000 X | 0.000 X | 0 | ID | |
| 5869 | 1000 | Men's Locker Rm. | 1 | AC | Red frame | Steel | Good | -0.219 S | 0.000 X | 0 | UNLM | Neg |
| 5870 | 1000 | Men's Locker Rm. | 1 | вc | Red frame | Steel | Good | -0.947 S | 0.000 X | 0 | UNLM | Neg |
| 5871 | 1000 | Men's Locker Rm. | 1 | ac. | Red frame | Steel | Good | -1.361 S | 0.000 X | 0 | UNLM | Neg |
| 5872 | 0001 | Men's Locker Rm. | 1 | AC | Red frame | Steel | Good | -0.782 S | 0.000 X | 0 | UNLM | Neg |
| 5873 | 0001 | Men's Locker Rm. | 1 | AC | Red frame | Steel | Good | -0.433 S | 0.000 X | 0 | UNLM | Neg |

| Page | 8 | of | 8 Limit Set: 0 | Coding Set: 32 | No Averaging Selected |
|------|---|----|----------------|----------------|-----------------------|
| | | | | | |

XRF Assay Results

Customer:

The Tsang Partnership, Inc.

950 Pacific Avenue, Suite 1100

Tacoma, WA 98402

Project Name: FY 99 Golf Course Clubhouse & Cart

McChord AFB

W٨

Site Name: Cart Storage

Building 891, McChord AFB

Action Level 1.000 mg/cm2

Lab 1,000 mg /cm2

Total Assays Reported

21

| Ħ | Site | Room Tested | # | Wali | Component | Substrate | Paint Condition | K-Shelt mg/cm2 | L-Shelf mg/cm2 | Map # | Туре | Result |
|-----|------|-------------|---|------|-----------|-----------|--------------------|-------------------|-------------------|----------|------|--------|
| 589 | 0002 | Calibration | * | • | • | * | * | 0.923 K | 0.487 L | 283 | UNLM | Incl |

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Appendix H

Laboratory Analytical Report - Lead

NVL Laboratories, Inc.

4708 Aurora Ave. N., Scattle, WA 98103 Tel: 206.634.1879 • Fax: 206.634.1936

AIHA ELLAP **#**11559

Batch #:98-9457

ANALYSIS REPORT

Total Lead (Pb)

Client: Med-Tox Northwest 19032 66th Avenue S. Kent, WA 98032

Matrix: Paint Chip Method: EPA 7420

Attention: Bill Murray

Total samples: 4

Project #: A3727

Location: McChord AFB, Clubhouse

| Sample # | Lab ID | | | <u></u> | <u> </u> |
|------------------|----------|------------------|-----------------|---------------------|-----------------------|
| <u> </u> | | Sample Wt.(g) | LoĐin eng∧kg | Results in mg/kg | Results in Percent |
| 1104BM001L | 98111022 | .19620 | 69 | | |
| 1104BM002L | 98111023 | -08000 | | <69 | < 0.0069 |
| 1105BM003L | 98111024 | | 170 | <170 | < 0.0170 |
| | | .23420 | 58 | 160 | 0.0160 |
| 3105BM004L | 98111025 | .11980 | 120 | <110 | < 0.0110 |
| Method Blank -54 | ma () | | | | |

Method Blank <54mg/kg

DRAFT

Instrument/Bench Run: 98110903

mg/kg = Milligrams per kilogram LoD = Limit of Detection < = Below the detection limit

NOTES: All standard and spike values are reported for quality control purposes. Results for QC samples represent Percent Recovery.

Analyst: Steve Zhang

Date Analyzed: November 09, 1998

Reviewed by:

Munal Khan, Laboratory Director

DEMOLITION NOTES:

- CLUBHOUSE BUILDING REMOVE UNDERSROUND SECONDARY E.FCTRICAL FEEDERS AND CONDUIT TO THE POLE-MOUNTED TRANSFORMERS LOCATED AT THE SOUTHEAST CORNER (BUILDING 888)
- CART STORAGE BUILDING REMOVE OVERHEAD SECONDARY FEEDERS TO THE FIRST UTILITY POLE NORTH OF THE BUILDING (BUILDING 891).
- REMOVE EXISTING BUILDINGS INCLUDING PLANTERS, WALLS, SCREEN, CONCRETE WALKWAYS AND FOUNDATIONS, BACKFILL AND COMPACT TO THE LEVEL GRADE.
- 4 DEMOUSH EXISTING ASPHALT CONCRETE PAVEMENT DRIVEWAY, SHAPE TO PROVIDE 12" DEEP SWALE.
- 5. DEMOLISH EXISTING 4" ASSESTOS CLMENT WATER SERVICE PIPE FROM THE VALVE AT THE WATER MAIN TO BUILDING 688 PROVDE A PRESSURE TIGHT CAP OR PLUG AT THE VALVE. SEE NOTE 8.
- DEMOUSH EXISTING 6" SANITARY SEWER SERVICE LATERAL FROM THE MANHOLE CONNECTION TO BUILDING 888, PROVIDE WATERTICHT PLUG AT MANHOLE CONNECTION, SEE NOTE 8.
- 7. PROVIDE 6' WIDE ASPHALT CONCRETE PAVEMENT PATH FROM EXISTING PARKING LOT TO THE ASPHALT CONCRETE PAVED GOLF CART STAGING PAD. REVOVE 8 LF CURBING FROM THE PARKING LOT. PERMETER PAVEMENT SECTION SHALL BE 2' COMPACTED DEPTH CRUSHED SURFACING TOP COURSE, OVER 6' COMPACTED DEPTH GRAYEL BASE, OVER COMPACTED SUBGRADE.
- 8. WITHIN THE AREA RESERVED FOR THE CWNER'S USE OF THE EXISTING PARKING LOT, BACKFILL AND SURFACE UTILITY CONFORMING TO PAVEMENT REQUIREMENTS STATED AT NOTE 7. AT OTHER LOCATIONS, BACKFILL WITH GRAVEL BASE.
- PERFORM WORK INDICATED IN ITEMS 4-7 PRIOR TO ERROTING SECURITY FENCE AND STARTING BUILDING DEMOLITION.